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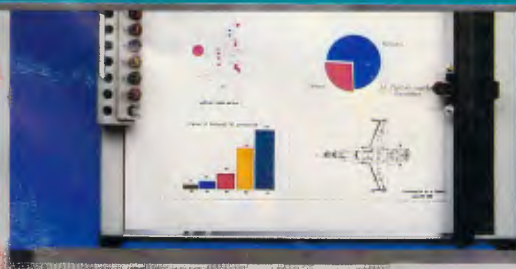


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How to use this Guide

The 1987 Australian Personal Computer Buyers Guides to Hardware and Software have been compiled in response to the many requests received daily at the offices of *Australian Personal Computer* magazine for basic information about a large number of products and services. This Guide is devoted to an overview of equipment, accessories and related services available to the microcomputer user. Also included in this Guide is a separate section on Communications. The companion directory, *The Buyers Guide to Software*, is concerned with software and related services.

Whether you are a microcomputer user in a small business or large corporation, or indeed a complete beginner, the Guides will provide you with a comprehensive overview of the vast number of computers, peripherals, software and services available today in Australia.

The task of choosing new equipment or software is a daunting one, not helped by the facts that the choice is so large and developments happen so quickly. Will the computer you bought last year be hopelessly out of date by next Christmas? On the other hand, just what enhancements are available of which you are not aware and which could expand the capacity of your current system? Many more than you thought, that's for sure.

These Guides are devised to help you with your research. It would be impossible to list everything on the market and the information given here is by no means the final word — you will need much more information than that. But in one, neat package they conveniently provide concise, necessary information about a great deal of products. They will give you a very good idea of what is available and of what you can immediately eliminate from your list to save yourself a great deal of time.

The information provided here is based on that given by product or service suppliers and every attempt has been made to ensure that it is as accurate as possible. It consists of the

main configuration requirements and a short description of the features of a product. The separate chapter introductions explain more about this. Where any information is missing, it was not supplied.

We have tried wherever possible to list the name of the main Australian supplier or distributor. Sometimes there are a number of different distributors who may, for example, import individually from an overseas supplier. In these instances we have listed the names of those distributors we know of and with whom we have made contact. Most of the suppliers listed have been contacted, or have contacted us, by telephone or in writing. Only in a few instances have we listed products or services when we could not get in contact with the main distributor. Generally these products are of the sort available at a large number of outlets. Otherwise, we worked on the basis that if it was very difficult for us to make contact, it might be difficult for you. However, putting together a list of everything available is an almost impossible task, and the absence of a product or service from these listings does not constitute an indictment by us.

Listings are by product name, alphabetically, in product categories. We have attempted to categorise products and services in the most convenient way possible for you as the potential purchaser. In some areas where it is difficult to categorise, the introductions to chap-

ters will suggest alternative categories you should consult.

Prices were provided by the suppliers we contacted but are naturally subject to variation. Market observers anticipate, for instance, that the launch of the new IBM products a few weeks ago will greatly reduce the prices of existing PC/XT/AT clones during the next few months.

The editorial introduction which follows gives a brief guideline on what to look for when buying computer equipment, some of the pitfalls to avoid and a look at what the near future may bring. We have taken the relative beginner into account in this section. But the Guides are really for everyone interested in buying something in this market.

At the back of this Guide you will find alphabetical lists of suppliers with, where provided, interstate offices or distributors. It was not possible to list every dealer of every product but suppliers are aware that you will be requiring more information. If you telephone or write, they will direct you to your nearest dealer.

For those of you who know what you are looking for, there is also an easy reference index of products which will direct you straight to the correct page number for more information. If you cannot find the exact product you want here, you are bound to find some alternatives. Also, *Australian Personal Computer* magazine will be publishing regular updates. So keep in touch.

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Where to start

Buying from scratch or updating? Kester Cranswick helps you plan your approach

So, you want to buy a computer. Your business has been getting along just fine using pen, paper and filing cabinet, but times are changing, and everywhere you go there seems to be a green screen and keyboard. The trouble is, it's such a confusing market. There are so many computers and programs and printers and peripherals and people that you just don't know where to turn.

Or, maybe you've already got a computer, but it's a few years old, and technology has marched on since you bought it. Maybe it could be used for more than the accounts and word processing. That rival salesman had some pretty snappy graphics pieces that he said he had done on his computer, and the boss has asked you to check out laser printers. Again, there don't seem to be any simple solutions.

Well, you've done the right thing, reading this far. This is a directory of most of the available computers, peripherals and accessories on the Australian market today. Combine this with the companion directory, devoted to software, and you'll be in a position to make your next buying decision without having to sit through the presentations of a dozen salesmen, get totally confused by colourful ads, or take a punt and hope for the best.

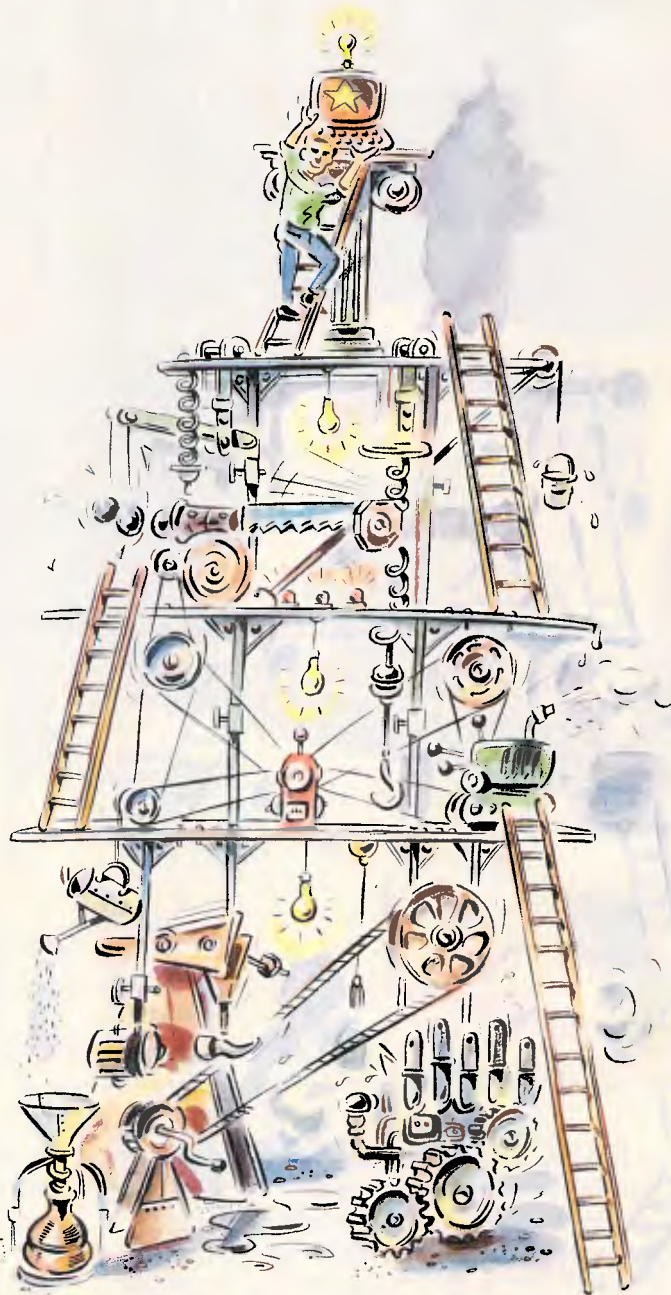
This first article is devoted to the actual computer, the heart of a system. We aren't going to assume that you know what I/O means, or can count in hexadecimal. But, by the end, you should know what type of computer you want, what is meant by an Operating System, and the difference between ROM and RAM. And, if you already know the computer ABC, you might get a bit of an update in the technology of 1987.

Those of you who want to add a bit extra to an existing computer should turn to the following article. It describes the various accessories and peripherals that are available, and will certainly give you some ideas about improving your computer's performance,

extending its usefulness, or making it more powerful.

Finally, there is an article on where the personal computer is headed and the

trends emerging at the moment. If you read that, instead of listening to your mate down the pub, you won't end up with a white elephant on your desk.



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The growth in the use of computers has caught even the most optimistic pundits by surprise. The first inventors of these electronic calculating machines predicted a worldwide market of about a dozen computers. Now you can find a dozen computers in just one small business.

More and more office and factory workers are having to come to terms with glowing screens and the concept of a program. Those who aren't learning about computers are in danger of becoming as disadvantaged in the workforce as those who can't read or write.

The only way to get to know about computers is to use them, to become part of the information revolution. But, to do that from scratch can seem like having to learn to fly the space shuttle.

A computer, like a motor car, is a means of getting from A to B. It is tool to get a job done. However, with hundreds of computers to choose from, thousands of accessories and peripherals, and as many people keen to sell you their particular products, it is easy to get confused. Yet, despite the differences in specifications, prices and features, all computers can do basically the same tasks.

If you are completely new to the computer scene, take the time to read the section, 'What is a Computer'. And, if you come across any terms you are unfamiliar with, refer to the dictionary of computer terms printed elsewhere in this directory.

The easiest thing about buying a computer is deciding you want one. The hardest thing is deciding what you are going to use it for. If you can't frame an answer to that question, you are unlikely to end up with the ideal system for your requirements.

Uses

The business functions that computers can perform fall into a number of clearly defined categories, and each of these categories dictates the shape of a system.

For word processing or desktop publishing, the primary hardware requirements are a good keyboard, for easy entry of text, and a printer, for hard copy output. For database applications, the main requirement is storage of data, meaning high capacity disk drives and plenty of internal memory is essential.

For financial applications and number crunching, often the most important thing is a computer that is able to operate quickly. For graphic and

design purposes, the quality of the VDU output is essential, coupled with a high quality printer.

For office automation purposes, the ability to send data between different machines is critical. Computers for this type of environment need to be able to be joined together, or networked, with a minimum of fuss, and need to be able to access central data stores.

Clearly, there is no one computer that is ideal for everything. If there was, there would not be the choice of computers there is. So, the most important step in buying a computer is to list the things it will be used for. Write down what you want to do with your com-

puter, who is going to be using it, and then start looking at software.

Software first

Perhaps the most valuable advice to a computer buyer is to purchase the software first. Every computer has word processing, number crunching and database applications available for it. However, the quality and features of these programs vary considerably, and it is important that you get a computer that is going to run the applications that will do the job you want. If you haven't already bought the APC Buyers Guide to Software, do so, now.

What is a computer?

All computers are built around a microchip called the Central Processing Unit (CPU) or microprocessor. This is the heart of the computer, and it is what does the actual computing. It manipulates digital data, adding together numbers at incredible speeds in its computations. An internal clock synchronises the flow of data through the computer circuits. In addition, other microprocessors handle the display of data on screens and the gathering of data from the keyboard or other external sources.

Ultimately, all data in a computer is reduced to a stream of ones and zeroes, which can be interpreted by the computer as on or off states for the tens of thousands of miniature transistors that make up a microprocessor. This simple on/off principle is the theory on which a computer is built.

The smallest unit of data is a bit, represented as either one or zero. Microprocessors are constructed to deal with data in chunks of bits. Eight bits of data are known as a byte, and microprocessors are able to deal with eight, 16 or 32 bits of data at a time, hence the distinction between eight, 16 and 32 bit microprocessors. Data is fed along an electrical pathway called a bus, and this can transmit either eight, 16 or 32 bits of data at a time.

Data that is not being manipulated by the microprocessor is stored in memory. There are two types of memory. Random Access Memory, or RAM, is memory which is constantly in a state of flux, as computations are performed. The larger the RAM, the more data the computer can have instant access to.

Random Access Memory, or RAM is measured in a unit called the Kilobyte, abbreviated to K. Because of the binary nature of computers, one kilobyte of RAM equals 1,024 bytes of data, or about 1,000 characters. Some computers, particularly the budget models, may not have enough RAM. Why? The Operating System, supplied on disk, must be loaded into RAM, so using up a portion of it. What's left over is available for applications to run in.

Read Only Memory, or ROM, is memory that has data permanently stored in it. The data can be read, but not altered. ROM is where the code that the program which runs the microprocessor resides.

The Operating System is a collection of programs that let other programs or applications run on the computer, by handling files, directories and the like. Different computers have different operating systems, and programs written to run on a particular computer have to be compatible with the Operating System resident on that computer.

Programs can be keyed in to a computer, but they are usually stored on magnetic tape or disk. The computer reads the data for the program and then runs it.

New data is entered at the keyboard, with a monitor, or Visual Display Unit (VDU) displaying what is typed in, and output from the computer in response.

The other major component of a computer system is a printer, giving printed copy of a program's output. But, as you'll discover, there is far more to a computer system than these few parts.

Unless you have a very specific requirement, such as wanting to run a pig farm management system, you'll probably find that a range of different applications for a range of different computers will meet your needs. However, you should be able to eliminate a number of possible computer types or brands. For instance, a battery powered laptop computer with a liquid crystal display is not suitable for working on computer aided design applications.

Having found the software you want to run, and eliminated some machines, the next step on the purchase path is to try and work out what your future system requirements will be. You have to make sure that you don't waste money buying a machine that is too sophisticated for your future needs, or buy one that will not be powerful enough.

The beauty of most computers is that they can be expanded. However, you need to strike a balance between blowing your budget on something you will never use to its full capacity, and buying something you will grow out of in 12 months time.

So, if you plan to use your computer primarily to compile a database, consider the eventual amount of data you may want to store. A detailed database of personnel in a medium-sized company may only need a modest amount of memory, and if the company trebles in size, you don't want to find yourself in the situation where because of the amount of data stored, it takes a week to find the file you need.

For financial calculations and database manipulation, the speed of the microprocessor can be important. If you construct a large spreadsheet, and change a few figures, it can be very frustrating having time to read the paper before the spreadsheet is updated. Equally frustrating can be a database shared by a number of networked micros that seems to take forever to find a particular record.

Then there's the mistake of buying a computer with too little expansion potential. If you want to run a printer, a modem, link into a network, have external disk storage and connect an optical character recognition device, you may find your chosen micro hasn't enough

'The easiest thing about buying a computer is deciding you want one. The hardest thing is deciding what you are going to use it for.'

ports to accommodate all the peripherals. Go through the peripherals section and list the devices you might want to add to your system in the future.

Fortunately, the world of peripherals contains devices that can solve just about any problem you care to name. There are black boxes that allow two peripherals to share the same port,

microprocessor upgrades to increase the speed of the computer, cards to increase internal memory and so on. However, if you have all you need when you start, you'll save money in the long run.

Types of computer

Despite the plethora of computers, most fall into a number of well defined categories.

For the beginner or one person business, there are home computers, such as the Commodore 64 and Apple IIe. These machines are low cost, are the ones that have survived the turmoils of the home computer industry, and have plenty of software available. The disadvantage of these computers is that they are generally slow, there is a limit to the amount of disk storage that can be added, and the applications lack the sophistication of those for the office computer. However, providing you are not wanting to do more than run a few simple applications, access information services such as Viatel and get to know a computer, the home computer can be a good starting place.

There are a number of more recent machines that lie between the home and the office micro. Commodore's Amiga and the Atari 520ST fall in this category. They have excellent sound and graphics capabilities, aren't quite as expensive as an office micro, have plenty of expansion capability and are easy to use. However, the library of software available for them is limited and they cannot be used other than as

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stand alone machines. For the small business, they may also be worth considering.

Most business computer buyers start by looking at what has become the standard office computer, a PC (Personal Computer), a standard created by IBM. Before you do this though, consider the one player that has created an alternative standard. That player is Apple, and its office micro is the Macintosh. It is a machine that takes a totally different approach to the user, and this approach should at least be considered before you plump for a PC. If you like it, and the Macintosh meets software and expansion requirements, you'll save yourself getting into the PC jungle.

Most computers interact with the user textually. The user types in, say 'DIR', to get a directory of the files on a disk, 'DEL' to delete a file, and the name of the file to open it.

With the Macintosh, Apple tried to do away with this typing-orientated interface. It attached a device called a mouse (a hand held box with a ball in it) to the computer. The mouse, when moved on the desk, moved a cursor on the screen. Also new were the concepts of 'icons' — pictures on the

screen representing files, disks and programs — and menus. A menu was a list of commands that could be activated just by moving the cursor to it and clicking a button on the mouse.

Suddenly, the user did not have to learn a command language in order to use the computer. Icons could be moved on the screen, files thrown into an on-screen rubbish bin, calculators and clocks displayed on the screen and so on. The term 'user friendly interface' was coined.

A feature such as this has made the Macintosh very successful. Users, unfamiliar with computers, have been quick to appreciate the Macintosh concept and the PC community has responded by developing similar interfaces for PCs.

Operating systems

The reason the Macintosh runs as it does is its unique Operating System. This not only provides the user interface, it also dictates what software can be run.

In the early days of computers, every different machine seemed to have a different Operating System. For the user, this meant that changing from one

machine to another meant scrapping all the previous programs and learning a new command language.

The first Operating System to be widely adopted was CP/M, or Control Program for Microprocessors. This Operating System was for eight-bit operating systems and was used by many home and office micros prior to the introduction of the IBM PC. Thousands of CP/M applications have been written, and there are still a fair number of laptop and luggable computers using it. CP/M is also found on several home computers, so expanding the choice of software available.

With the first IBM PC, a new Operating System was introduced. The IBM version is called PC-DOS, but on compatibles, the equivalent Operating System is called MS-DOS. MS-DOS is now virtually a de facto standard in the personal computer world, and an MS-DOS machine can draw on more applications than any other.

MS-DOS has evolved with the generations of microprocessors. For the PC/XT and compatibles, the standard Operating System is now MS-DOS 2.2. For the PC/AT, the recently released MS-DOS 3.3 is set to become the standard operating system. Each



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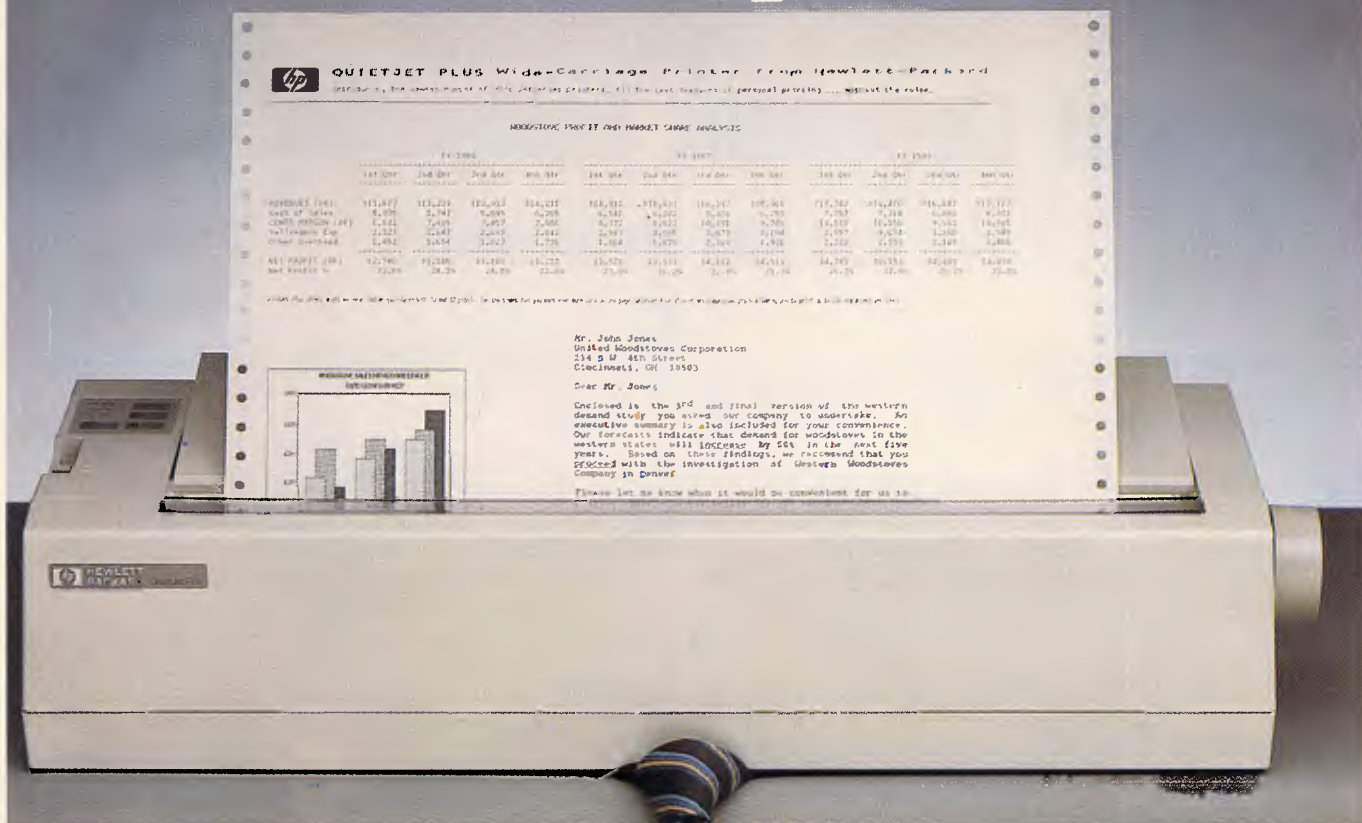
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INTRODUCTION

generation of MS-DOS has enhanced commands, and is better able to take advantage of the architecture of the microprocessor.

As yet, there is no agreed operating system for the 80386 machines, though many companies are working on contenders for the crown. Microsoft and IBM have collaborated on something called Operating System/2, which will be seen next year, and this will probably become the standard. Compaq has its own 80386 operating system, and there are other independent operating systems under development.

There is one more operating system worthy of note, and it is becoming increasingly important in the world of networked PCs. Unix is its name. It is a product of the Bell Laboratory in the US. Unix is similar to MS-DOS in many of its commands, but it is very powerful in the ability to run multi-user applications. In the PC environment, a derivative of Unix, called Xenix, can be obtained as an operating system for the more powerful micros, and this gives access to a modest, but rapidly increasing, range of applications.

Buying a particular computer usually ties you into a particular operating system. There are some PCs that can run both CP/M and MS-DOS applications. There are others that can run both MS-DOS and Unix applications. Your choice of Operating System determines which applications you can run, and buying a computer with a proprietary Operating System (one written for one range of computers only) can restrict your choice of software considerably. Fortunately, there are few PCs that run anything but MS-DOS, and those that won't run MS-DOS are generally sold very cheaply through classified ads.

Because of the strength of the MS-DOS Operating System, the business computer scene is dominated by the IBM PC and the PC compatibles from virtually every computer manufacturer. A PC compatible is a micro that is functionally identical to the IBM PC, though not made by IBM. A compatible usually runs the same software, has the same keyboard, accepts the same peripherals and has the same Operating System. There are variations to the PC theme, in areas such as keyboard, CPU speed and so on, but basically it is the operating system that is the common element.

The PC market is the safest entry point for anybody wanting to run business applications on a computer. PCs are able to draw on a list of tens of thousands of software packages. They

can be linked together, and into mainframe computers. They can store massive amounts of data, accept a huge range of peripherals and have enormous expansion capability.

Within the PC world, there are different types of machines. Most PCs are built to sit by themselves on a desktop, with the microprocessor, disk drives and internal memory in one box, the monitor on top and a keyboard connected by a cable.

For the user on the move, there are laptop and luggable PCs. Luggable PCs combine a monitor, disk drive, microprocessor and keyboard into a unit that is about the size of a portable sewing machine. Though still needing to be connected to the mains, the luggables can be moved from office to hotel to home quite easily. They run the same software as the office PC too.

The laptop computer is even smaller — about the size of a small, manual typewriter. Many of these are battery powered, and can be used anywhere. They have screens that use either liquid crystal or gas plasma displays, and run software written for desktop PCs. There are even smaller laptops that have their own Operating Systems, and can be used by travelling salespeople or executives to write memos, do calculations or send messages to the office.

Though most PCs are designed to operate as stand alone devices, there is another type of PC — the multi-user PC. Some organizations, rather than buy a standalone PC for each desk, install a multi-user PC. This has a number of terminals linked to it, and users share the programs and peripherals of the central PC. It avoids the need to have several copies of a program, means that everyone can access the same files, and makes sending data between users very simple indeed.

Most PCs are sold as standalones, but it is wise to be aware of the other options in case they would be more suitable to your business. For a medium-sized business or department, multi-user machines in particular should be investigated.

Fast chips

PCs can also be categorized into the type of microprocessor they use. The microprocessor dictates the ultimate capacity and speed of the computer, so it is important to be aware of what the choices are, and to eliminate machines that have unsuitable CPUs.

The first generation of PCs used an Intel 8088, or similar processor. This

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was an eight-bit processor, meaning that it handled data eight bits at a time. An 8088 processor is found in the base PC and PC/XT models.

When IBM introduced the PC/AT, and the compatible makers followed suit, the microprocessor adopted was the Intel 80286. This is a 16-bit processor, so it can handle twice as much data at a time. It means applications run faster, programs can be more sophisticated, and there can be more internal memory.

In the last year, a new Intel processor has come onto the scene, the 80386. First seen in the Compaq Deskpro 386, it is able to process twice as much data at a time as the PC/XT, at faster speeds, and is ideally suited for multi-user or multi-tasking situations. Other pc makers have also introduced similar 80386 machines, while IBM recently announced its first 80386 micro, the Personal System/2 Model 80. It came complete with a new operating system, OS/2, which will offer similar features to the Compaq operating system. Multi-tasking is what we call the ability of a computer to run two or more programs simultaneously, so the user can switch from, say, a spread-

sheet to a word processor at the press of a key.

The amount of data a microprocessor can handle at one time is an important specification. So too is the operating speed of the chip. This is expressed in MegaHertz. An 8088 chip in an XT usually runs at 4.77 MHz, an 80286 at 6 MHz. However, many manufacturers have been able to boost the speed of the microprocessor, up to 12 MHz for some AT-compatibles. This dramatically increases the speed at which programs are run. However, it is worth noting that some software will only run at standard speeds.

Having decided on the microprocessor you need for your computing, the next specification to consider is internal memory. Too little is a recipe for frustration.

Memory

The minimal RAM you are likely to find on a personal computer is 128K. That may sound a fair bit, but once the Operating System is loaded, there's not much left over for application. That's why many applications need at least 256K, and often 512K to run. Software packaging shows how much

RAM is needed, and if you've already chosen your software, you'll know how much RAM is needed.

Clearly, the more RAM a computer has, the bigger the applications it will be able to run. More RAM costs more money, but a typical PC will come with 256K RAM as standard.

Most computers allow the RAM to be expanded by the addition of more memory chips. There is a limit to the amount of memory that can be installed, and that will be detailed in the specifications of the machine. If it goes to 640K, you can't go far wrong.

Manufacturers also like to specify the amount of Read Only Memory, or ROM, a computer has. ROM is used to store the BIOS, or Basic Input/Output System, of a computer. This is the code that gets the computer going and drives the microprocessor. Its size has little effect on what programs can run, but a large ROM can indicate that the computer has a better user interface, or more powerful self-diagnostics that are run on power-up.

Every office computer will have one or more disk drives built-in. The standard drive takes a 5 1/4 inch disk. But, to complicate matters, there are two types of 5 1/4 inch disk drives, holding

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either 1.2MBytes or 360K of data each. On laptop computers, 3 1/2 inch disk drives are used, because of their smaller volume. They hold 360K or 720K of data, depending on whether one or two sides of the disk is used for recording.

A single disk drive is adequate, but two drives make life far easier. If you are copying disks with one drive, there will be plenty of disk swapping before the job is done. Unless you are on a really tight budget, go for two drives, and if the higher capacity 1.2MByte drives are available, get them. The more data a disk holds, the less disks you need.

A hard disk provides mass storage, with units holding up to 40MBytes of data sold as standard on some PCs. Of course, a hard disk can always be added at a later stage, but it is a handy extra to have in the base PC.

Talking to peripherals

Two more areas of computer specifications need to be understood before a shortlist of possibilities is compiled. Both relate to system expansion. To talk to printers, modems, other computers and the like, computers need Input/Output ports. Most come with a parallel printer port, and many with an RS-232C serial port for other peripherals.

A parallel port sends data down the wire a byte at a time, with the eight bits side by side. Most printers use a parallel interface, though serial models are available. A serial port is one that sends data one bit at a time, one after

the other, and is essential for communicating between the computer and the outside world. If these features aren't provided, they can be added later, but that will cost money.

To add devices such as hard disks, internal modems, expansion cards and the like, computers need to have expansion slots. These are divided into full length and half-length slots, with some expansion cards and peripherals needing a full length slot. The number of each you'll use depends on how big you want to make your system. It is a matter of deciding what you are likely to need in the future, and making sure what you buy now is able to cope with the future. Check out the peripherals listing to get an idea of the boards that are available.

Making your choice

We're near the end of choosing your computer. The path we've followed has seen you decide on the software you need, which determines the Operating System of computer. You've examined the Apple route, and are still on the PC trail. You've settled on a standalone desktop PC, and know what CPU it must have, how much internal memory and what you need in the way of disk storage. You are aware of how many slots are needed, and whether you want serial and parallel ports as standard, or extras. Now we come to the differences between particular machines. Here, it's a case of try before you buy.

Keyboards are fairly standard. The conventional PC/XT style keyboard has 83 keys, including a numeric keypad,

for easier entry of numerical data, and 10 function keys that can be programmed to enter whole command lines with one stroke.

An extended IBM keyboard has 102 keys, with 12 function keys and separate keys to move the cursor. Compatible manufacturers have similar keyboards, with some having separate cursor control keys, slightly different locations for non-character keys and other minor differences. As many software packages come with templates for the keyboard, telling you what certain keys do, the closer the keyboard is to IBM's design, the better.

On the question of monitors, the type of applications you want to run will determine whether you need colour or not. For graphics and computer aided design, colour is almost essential. There are a number of standards for colour monitors, and we'll explore these in the next feature. But, check out the quality of the monitor, whether it is flickery, characters are clear, and it has controls for brightness and contrast.

Examine the size of the computer. Some are larger than others, meaning less desk space for you. If the cables are long enough, you may be able to put the CPU box at the side of the desk. Also check for useful features such as reset buttons and keyboard locks.

Compatibles

By now you should be able to look through the directory and see which machines meet with your requirements.



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You'll probably find that most will. The most common specification for a business computer would be a PC/XT or compatible with two disk drives, 256K RAM and serial and parallel ports. There are plenty of machines that meet those criteria.

So, decide on your how much you can afford. Remember that a computer is only part of the system. You will probably want a printer, you'll certainly want some disks and software, and a modem might come into consideration. Don't spend all your money on the PC.

There is a well known saying: "Nobody ever got fired for buying an IBM". Certainly, IBM leads the field in sales, though many argue that other manufacturers offer better value and better performance.

With IBM, you know that you'll be able to run any MS-DOS software you want, use any peripheral you want, and get good service. The same can be said about most of the other well-known compatible makers too — NEC, Olivetti, Sperry, Hewlett-Packard, to name a few.

There are many scare stories about compatibles, about software not running, about suppliers going out of business, about machines breaking down.

However, the compatible market is not as big as it is without reason. Most compatibles will run just about anything you throw at them, are backed by sizable companies and compare very favourably with tt compatibles will run just about anything you throw at them, are backed by sizable companies and compare very favourably with the IBM offering.

There are exceptions. The NEC APC III needs an add-on board called the SLE Card to run MS-DOS applications, Microsoft Flight Simulator won't run on the new Apricot XENi, as it makes calls to IBM BIOS, some public domain software has similar problems with compatibles, and some old software written for the PC/XT cannot run on the PC/AT or compatibles.

These cases are very few, and all compatibles will run the most popular PC applications such as Lotus 1-2-3, Multimate, dBase III and so on. If there is a particular piece of software you must have, ask to see it running on any machine you think you'll buy.

In fact, many compatible suppliers offer money back schemes if you find software or peripherals that won't run on their machine. With that, and a six month guarantee, you can't go far wrong.

Summing up

If your computer is to help your business, and you are new to computers, make sure you get the machine installed by the supplier, or an agent. Get a service agreement too, so that if anything does break down or blow up, you'll be able to get a repair or replacement to keep your system going.

Buying a computer which is going to make your business more efficient is not the time to go trying to save a few dollars unnecessarily. Make sure you buy a computer that is going to run all the software you need to use, has the capacity to cope with existing requirements and can be expanded to cope with your growing needs. Buy from a reputable dealer, one you can go to with problems, or engage a consultant to advise you. Take a course to teach you how to use the computer, if you haven't got the time to study manuals.

Do all that and you shouldn't have any problems. Don't get too bamboozled by all the jargon. Treat buying a computer as if you were buying a car. Take a few test drives, check out the support, get the power you need, and go for it.

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Peripherals

Buying a computer is only the first step in building a computer system. To make it fly, you need peripherals.

The term 'peripherals' encompasses a range of products as long as your arm. Broadly, peripherals are anything that is added to the computer, whether internally or externally.

Depending on the computer you bought, you'll probably already have some peripherals. Most computers are sold with a monitor, all have a keyboard, and there will be some form of disk storage fitted as standard. Maybe that's enough for you, but you can bet your life that a few carefully selected peripherals will increase the usefulness of your computer dramatically.

You may already have a computer system, with a printer and modem, but if you have followed the trade press closely, you will know that there are quite a few new gadgets out there that you could use to improve your computer system a great deal.

That's the purpose of the peripherals section of this directory. It lists most of the available peripherals and accessories, from cables to laser printers, with their prices and specifications. If you have a computing problem, there will undoubtedly be some peripheral to solve it.

We are also listing user groups. These collections of enthusiasts are the people to talk to if you want some impartial, informed advice. User groups are formed by people, like you, who use computers in the real world. They know what's possible, what's best and what's happening. They are sources of education, information and assistance. If no-one understands you and your computer, contact a user group. But, back to you and your computer system. The average office computer is an MS-DOS micro with an 8088 processor, two 5 1/4 inch disk drives, 256K RAM, a monochrome monitor and a printer port. That's the Model T of the computer world.



But, with peripherals, this could be the scene: Picture an office with a dozen computers, linked together so that files and data can be sent freely between users. In addition, each computer could communicate with and use data from the company mainframe. The computers could also be used to send telexes anywhere in the world, to search databases on the other side of the globe and keep tabs on share price movements. One executive is using his micro to write and design a new sales brochure, to be printed out with typesetting quality. Another is at his PC, working on a sales presentation, consisting of colourful diagrams, to be presented in a computer-controlled slide show. A secretary is inputting government tender documents into the system, not by typing them in, but by feeding them through an optical character recognition device. The accountant is doing the latest figures, but speaking his commands to his computer.

Another computer is being used remotely by a salesman, calling in from a customer's office. In the corner, another salesman is looking through the product catalogue, read from a silver compact disk. The product engineer is working on a new design, drawing onto the high resolution colour screen using a light pen.

It is a far, far different world than the entry level PC, and all made possible by the use of peripherals.

Deciding which peripherals to buy first is a matter of knowing your needs. For database applications, mass storage is more important than colour graphics. For desktop publishing, high quality printing is the prime requisite. For graphics, colour monitors are needed. To run bigger applications, more processing power is needed.

Printers

The first peripheral most businesses acquire is usually a printer. Information

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ROM: IBM AT compatible.
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EXPANSION: Eight expansion slots.

Kaypro PC/PC20

CPU: 8.0 MHz 8088/20.
RAM: 768 KB
ROM: IBM PC/AT compatible.
DISK STORAGE: 2 x 360 KB/1 x 360 plus 20 MB hard disk.
EXPANSION: Nine expansion slot.

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INTRODUCTION

on a screen is all very well, but you can hardly carry a screen into the next office. Most computers come with a printer port as standard, so it is simply a matter of choosing a printer and getting a cable made up to connect it. If there is no printer port, you'll need a board. That comes later on.

Printers fall into four categories — dot matrix, daisywheel, laser and specialist.

Dot matrix printers are the workhorses of the industry, and the most common. The print head consists of a matrix of needles, and a character is printed by firing the pins in a combination which forms the shape of the character at the ribbon which makes the mark on the page.

The number of pins in the head determines the letter quality. Twenty-four-pin heads are the best you can get, with nine-pin heads the norm.

The normal print quality of dot matrix printers does look like a computer printout, but their main feature is speed, measured in characters per second (cps). 160 cps is quite common.

In addition, most dot matrix printers have a slower, Near Letter Quality (NLQ) mode. This overprints each character several times, to give better

quality, but at a quarter of the printing speed.

There are two other important considerations in the printer world. The first is the width of the paper that can be printed on. Screens display lines of 80 characters, so most printers print out 80 columns. For spreadsheets and other applications requiring wider printouts, a 136 column printer may be necessary.

Consider the character sets available too. A printer is programmed to print a particular character set or sets, as well as graphics. Most have an IBM-compatible character set. To get underlining, bold characters, italics and so on, special commands are sent from the computer. A printer driver, installed on the computer, translates what's on the screen to the code for the printer. It is vital that the software you use has the appropriate driver for the printer you choose.

For high quality printing, the daisywheel printer has been the traditional choice. A daisywheel uses a spoked disk, with each character moulded at the end of the spokes. The disk is spun until the character is above the printer ribbon, where it is pressed against the ribbon, and the

character is printed. Daisywheels are slow and noisy, but give typewriter quality printing.

However, laser printers are usurping the role of the daisywheel. These work on the same principles as a photocopier, and have the advantages of being very fast (eight pages a minute is common), almost silent, equally good at graphics and text, and giving almost typeset quality output. They're expensive, but prices are coming down, and they are top of the buying list for many organizations.

Specialist printers include printers to do colour work, plotters and label printers. Colour printers are based on dot matrix technology, with multi-colour printer ribbons. Plotters have coloured pens mounted in a device that moves over a large sheet of paper to literally draw out what the user has designed. Label printers are able to print off large runs of labels at high speed.

Buying a printer is then a matter of balancing cost, print quality and speed. You'll find a full listing of printers and specifications in this directory.

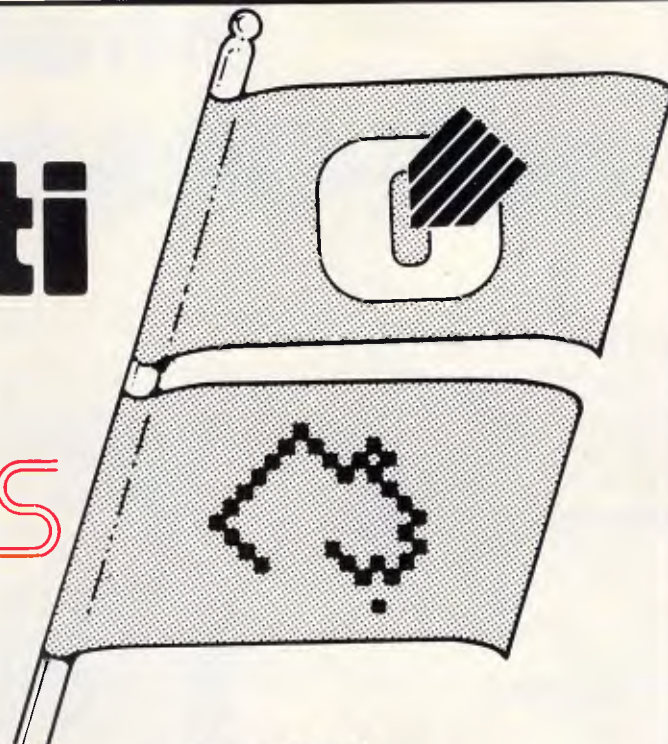
There are some other peripherals to consider when you buy a printer. To keep the noise down, there are printer blimps. To make printing multi-page let-

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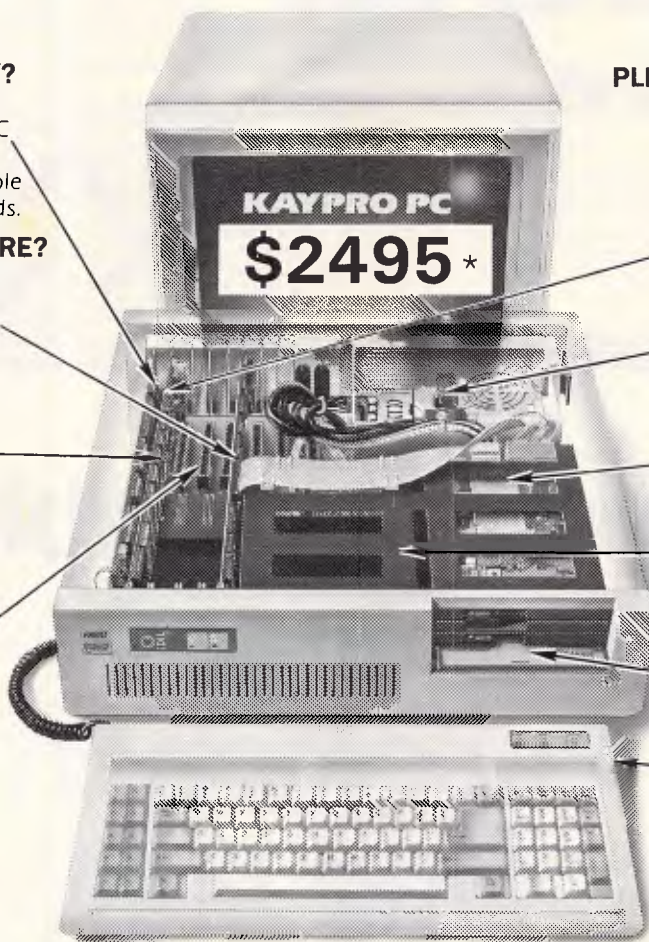
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ters or letters and envelopes, sheet feeders enable two or more types of paper to be fed into a printer while a collater keeps different sheets separate when they are printed out. Printer stands make sure that long printer outputs don't end up in a tangle on the floor. There are devices which enable a number of printers to be connected to the one computer or network. Finally, printer buffers store data coming from the computer, so that the printer can keep on printing while the computer is doing something else.

Storage

Expanded disk storage is another frequent requirement for a computer system. Restricted just to floppy disks, business users soon tire of continually having to insert disks, and keep track of what data is on what disks. The simplest solution is to install a hard disk. Hard disks hold the equivalent of many floppies. A 20MByte hard disk, for example, stores as much as 50 360K floppy disks. Data is accessed faster, and several applications can be stored on the hard disk, for instant use.

The greater the capacity of the hard disk, the greater the cost. 20MBytes is usually enough for a single user, but if you are running a large number of applications, or have huge amounts of data, you may need more. Hard disks as small as 5MBytes can also be bought.

You'll also find optional tape storage units available. The idea of tape storage is that it is used to back-up data. If a hard disk breaks down, the data on it may be lost. With a back-up tape, all your data will be safe. Tapes can store from upwards of 10MBytes, at high speed. Often they are combined with a hard disk unit.

The other mass storage option to consider is compact disk. Compact disks are read only, meaning that data can be read from them, not written to them. But, if you install a CD drive in your PC, you'll be able to get compact disks that store dictionaries, encyclopaedias and other such information that does not date. It is an emerging technology, and one to keep an eye on.

Boards

Installing a hard disk means installing a hard disk controller. This is a board that occupies one of the expansion slots of the PC and can control one or more hard disks. The hard disk itself slots in one of the disk drive compartments of the PC, possibly replacing

one of the floppy drives if there are only two disk drive compartments.

There is an alternative. Hard disks that are small enough to sit on a board in an expansion slot are available. That means you can have a hard disk drive and still keep two floppies.

Another category of board is the memory board. This extends the internal memory (RAM) of the PC, up to the maximum that the machine can cope with. In fact, a new generation of these boards is available that expands the usable memory beyond the machine limit, way up to 2MBytes. Only certain software, such as Lotus 1-2-3 can take advantage of the 'above board' memory, but for power users, it is one way to speed up processing.

Speeding up processing is also possible with accelerator boards. These have chips that double the speed of the CPU. And, to boost number crunching performance, there is also the option of adding a maths co-processor to the computer. This handles numerical data, leaving the main CPU to carry on with the rest of a program.

For XT and compatible computers, a number of manufactures have boards that turn the XT into an AT, by providing an 80286 processor. If your PC is getting a bit long in the tooth, this is one way to give it a new lease of life.

Boards are not difficult to install. Take the casing off the computer, slot the board into its slot, remove a rear slot cover if the board has external outlets, and re-assemble the computer. Any user should be able to do it. And, if you find yourself running out of slots, you could always buy an expansion chassis. This occupies one slot, but turns that one slot into many.

An important area of board peripherals is related to graphics and display. In the IBM world, there is

monochrome display (standard on most PCs), and three levels of colour graphics. They are described as CGA (Colour Graphics Adaptor), EGA (Enhanced Graphics Adaptor) and VGA (Professional Graphics Adaptor). Each in turn has higher resolution, so is able to show more detail, and more colours, and the level you settle will depend on whether you want to do simple charting or complex colour design work. Software packaging will indicate which graphics standard a graphics package is written for.

There are graphics boards to cope with all three colour graphic standards. To match them, you'll need the right type of monitor. Top of the line VGA monitors are the most expensive, but give the best quality. EGA monitors are good compromise between quality and cost, while CGA monitors are the base units.

The size of the monitor affects price too. The most common size is 13 inches, measured diagonally across the picture tube. Things to consider are the quality of the image, the number of controls on the monitor, and whether it has such things as a movable stand.

In the monochrome world, green screen and amber screen monitors are the standard. It is a matter of personal choice as to which you settle on, and prices are much the same. Again, base your buying decision on image quality, screen size and controls.

These are some of the considerations to take into account when choosing the more commonly used peripherals. Communications peripherals are dealt with in a separate chapter.

There is also a whole range of other peripherals in this Guide for you to consider. If you need something for specialist purposes, make sure you get some expert advice first.



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Tomorrow's micro

What effect will the recent IBM launches produce? What else is in store? Kester Cranswick investigates.

The Personal System/2 computers confirm the two historic trends that have threaded their way through the multitude of developments and products. The first is that computing power is getting less expensive year by year. The second is that users are able to take advantage of all the power offered to them, and more.

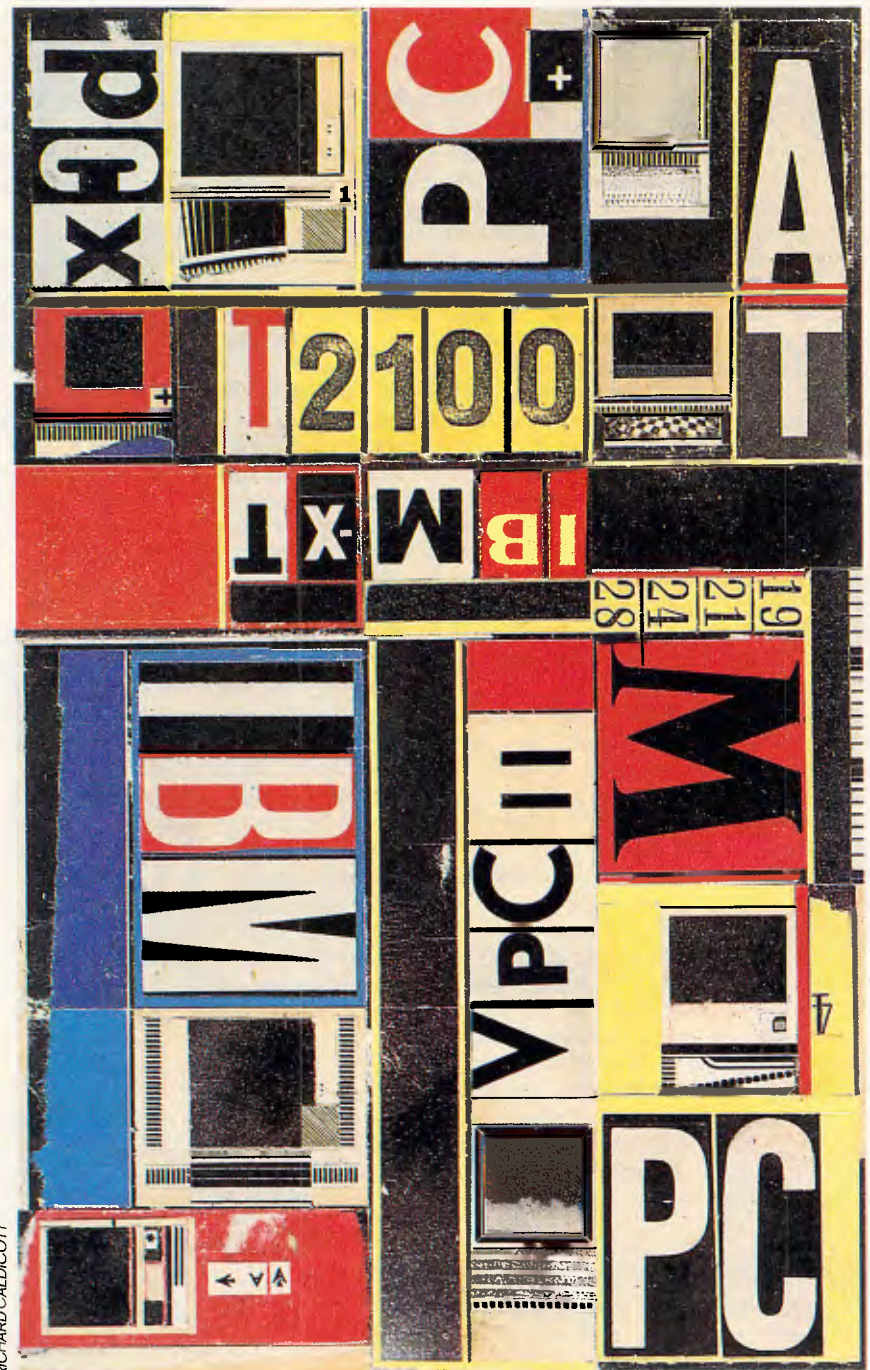
The cost of computer power is an immediately obvious phenomenon. PCs may not appear any cheaper in dollar terms than they were two years ago, but what you get for those dollars is considerably more. And, don't forget that the 1987 dollar is not the same as the 1985 dollar.

Recently, a number of super budget PCs have been launched on the market. The trend began with unknown micros from Taiwan, but has been given credibility by the entry of the Amstrad PC, and even more recently, by new releases from companies such as Hyundai, Tandy, Commodore and Imagineering.

These ultra-budget PCs offer XT compatibility and specifications for well under \$2,000. That price may include a monitor too. Now the average businessman almost can buy a PC out of petty cash! That is going to substantially devalue installed PCs, and put the fear of God into makers who have had the low end of the market to themselves, but it is just the latest round in the battle to get the computer down to a price everyone can afford.

At the top end of the market, that trend is present too. The aim has been to produce an affordable PC/AT compatible. But IBM has changed the rules of the game, with its new micros, discontinuing the AT and selling it off at around \$6,000. Other IBM models have had similar 30% plus drops in price. This will hit up-market compatible makers hard.

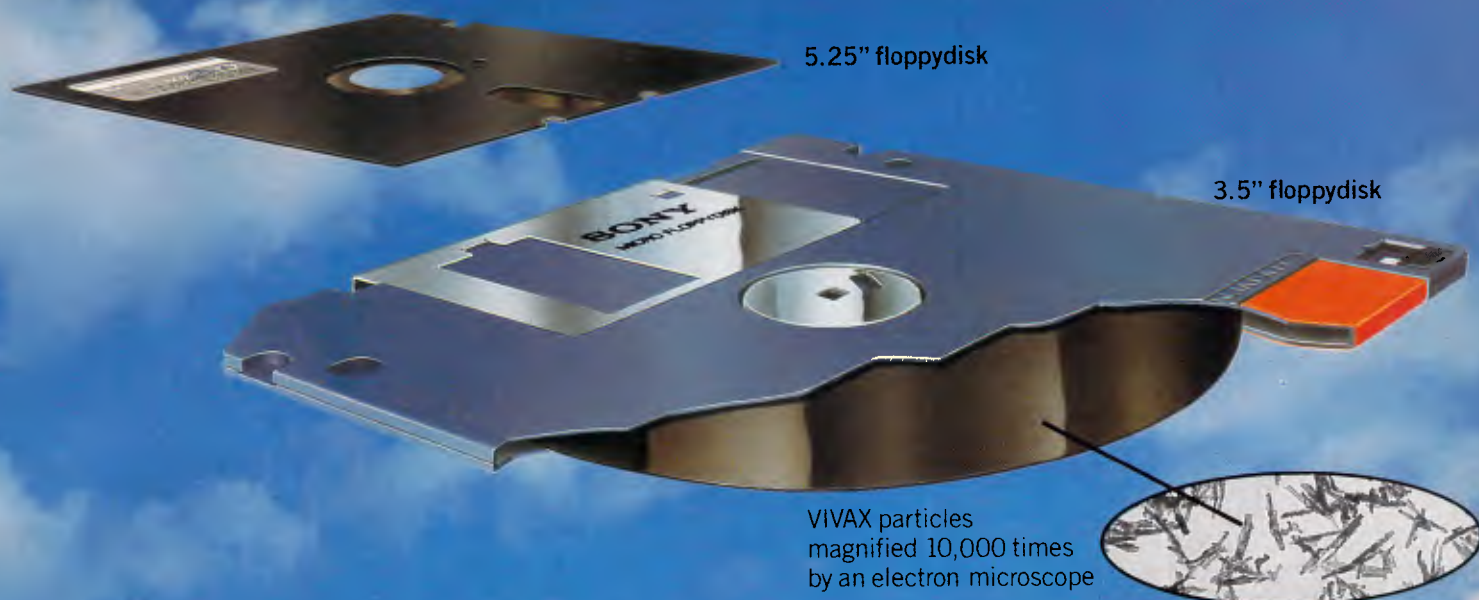
The main decision for buyers now is whether to go the new IBM Personal System/2 route, or stick with the previous, but well established models. If you take the latter path, the longer you



RICHARD CAI DICOTT

leave your buying decision, the less you will have to spend. Where will the trend end? Well, we won't get to the

stage of a PC with a packet of Cornflakes, but the hardware is going to become increasingly less important



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in the price equation, unless you are after a specialised computer.

Yet, with all these cost reductions, there is still a big market for high spec micros. The so-called power-user is rapidly learning to use all the computer power available to him or her, and continually asking for more.

Chips — with everything

What is more? Well, faster processing and disk access means less time spent at the keyboard. Better graphics means more applicability of the PC in such areas as cad/cam (computer aided design and manufacture) and graphics. More disk storage means bigger files.

We are rapidly coming to the limits of growth of 16-bit, 80286 hardware. With an upper limit on RAM of 640K, with

the limitations of a 16-bit address bus, with no way to carry out multi-tasking and multi-user applications, the 1986 PC is looking increasingly unlikely to meet the demands of the 1990 user.

IBM's new operating system should change all that, if it catches on. Though it won't be available until next year, it promises to remove the 640K RAM barrier, allow multi-tasking, speed up network data flow through the use of a 32-bit data bus, support the 80386 chip set, run existing DOS applications and have a graphical user interface.

We have entered the realm of the 32-bit micro. The race is between the two leading chip manufacturers — Intel and Motorola. Intel chips have been at the heart of the PC, compatibles, and its 80386 chip is the basis of the next generation of PCs. Motorola has been making the Macintosh chip, and has

been treading the 32-bit path for considerably longer.

At present, with the release of the new Macintosh hardware, Motorola has the edge. Intel's chip still lacks an operating system that will bring out its potential. OS/2 may be the solution, but a lot of development work must be expended by applications developers.

What does 32-bit mean to the user? Basically, a more powerful computer. The new generation micros will be many times faster than the fastest of today's machines. They will be able to address much greater areas of RAM, and support more disk storage. They will have far superior graphics, less arcane user interfaces, and represent as big a breakthrough as the PC was over the CP/M machines that preceded it.

With 32-bit, we will also enter the world of multi-tasking and multi-user systems. This is where office computing earns its stripes.

Until now, too many PCs have operated as stand alone devices, with users duplicating tasks, having to exchange disks and each doing things in their own way. True, there have been networks available, but the general opinion of networks to date is that they work, but only when no great demands are placed on them.

A 32-bit micro will be a true networking machine. It will be able to run several jobs at once, using data from a central file server, and interacting with other PCs in the office.

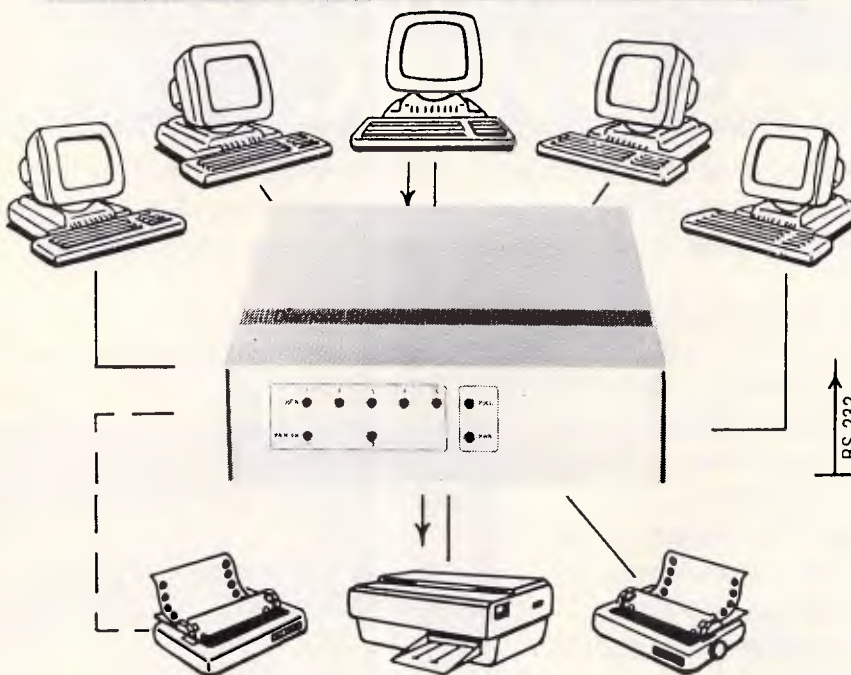
And, because 32-bit machines are so much more powerful, the applications running on them will be able to be more sophisticated. For more on that, see our software directory.

Networking — that is the key to the office of the future. Already, some industry pundits are predicting that the stand alone PC will be as old fashioned as the typewriter by the end of the decade.

The PC industry is on the verge of being able to build networks that will make the mini computers found in so many offices redundant. The advantages of networked PCs, over departmental processors, is that the network can be expanded incrementally, and does not have a high unit cost. There will be a far greater range of software to choose from, and the computers will have friendlier user interfaces. Finally, users who are accustomed to the PC will feel right at home, with the hardware and the software. It all adds up to a great future for the 32-bit PC.

There's another area of the market that is worth pointing out here. The first

Diamond Systems Printer Qr



PRINTER Qr

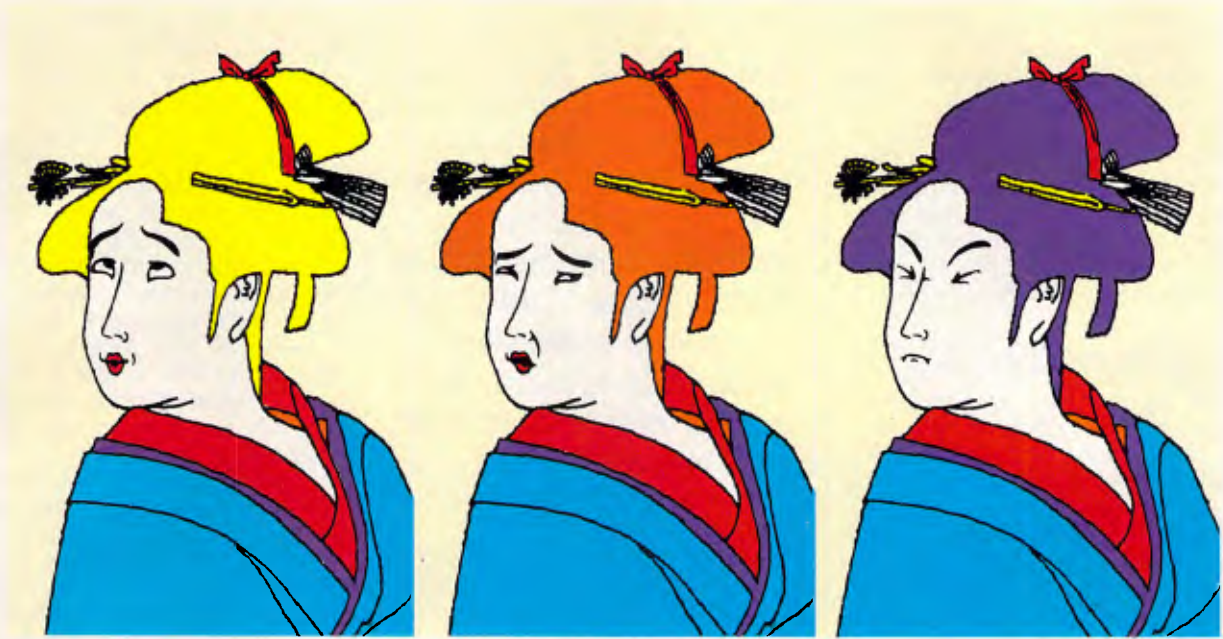
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'diskless' PC has just been announced. This is a PC/XT compatible with everything but a disk drive. However, it does have a built-in networking card. Which makes it perfect for the networking environment. Cheap (the announced machine has a sub-\$2,000 price tag), secure, as disks cannot be used in the machine, and built for networking, it is a class of computer which is almost certain to create a real market niche.

Futuristic peripherals

Enough of the PC. The peripheral world is going to change too. We've already seen plenty of changes in the printer market. The introduction of the laser printer has sounded the death knell for daisywheel printers. And, if prices come down as they are expected to, the dot matrix printer will be sorely challenged to. Laser printers are the future of the printing industry at present.

Another new technology has emerged recently too — the light emitting diode printer. Cheaper than a laser printer, less expensive to run, it could give laser printers a run for their money.

In the display field, monitor performance is improving year by year, and graphics cards are getting cheaper. Colour is standard now. High resolu-

Storage technology is evolving rapidly too, particularly in the field of optical disks. These are able to store vast quantities of data, and are far more robust than magnetic disks.

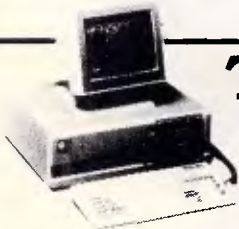
tion colour is getting more and more affordable. That means better software can be run. Couple that with customised graphics chips and we are in for some stunning applications.

Storage technology is evolving rapidly too, particularly in the field of optical disks. These are able to store vast quantities of data, and are far more robust than magnetic disks. At present,

they can only be written to once, but laser disks which can be used as magnetic disks are at present on the horizon. These disks will be able to store pictures as well as data, so the day when a computer can show movie quality pictures is not far off.

Another area to watch out for is speech interfaces. So far, the technology has been far from perfect, but IBM has an experimental system with a 20,000 word vocabulary. It is now only a matter of time before a computer user will be able to talk to his or her micro, instead of using the keyboard, and will be able to get a verbal response.

As each year goes by, the impossible gets a little closer. And, as each goal is achieved, new goals appear in the distance. Computers are still in their infancy, but have come so far in a few decades that it is difficult to disbelieve any company which says it has come up with something that is only a dream in the minds of the users. Where we'll be in a year's time is anybody's guess, but it is certain to be a lot further down the track than we can imagine.



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Now—a PC for the price of a decent lunch



As even the most dedicated gourmet will confirm, the size of the bill is often in inverse proportion to the quality of the fare.

And while disappointment is the more frequent result, occasionally, one can be surprised and delighted for peanuts. This phenomenon also occurs in the world of technology, the Super 16 PC being the perfect example. When first served in the US, it became the fifth most popular PC in under 12 months.

Made by Hyundai and supported by SNS with a 12 month warranty, the Super 16 comes with 512K RAM,

Hercules compatible graphics, MS DOS 3.2, GW Basic and Wordstar 4. And the menu is varied with a 30Mb hard disk stand-alone and a Turbo version, switchable to 8MHz. But the most pleasant surprise comes with the bill. Including monitor, single floppy and tax, you can enjoy the Super 16 for just \$1,925.

Which is about what you'd pay for lunch for four at Eugenie-Les-Baines (including wines and car hire ex Paris). However, while the pleasure of lunch at Eugenie-Les-Baines may tempt you to stay for dinner, the Super 16 will keep you totally satisfied for years.

SUPER 16

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Welcome to the next generation of personal computing.

Introducing four Tandy PC compatibles that redefine the term "industry standard"

Meet our new line of MS-DOS® based personal computers. Each one was designed with a different user in mind. And yet each has one thing in common: the Tandy commitment to excellence. When you buy a Tandy Computer, you get more. More power, more speed, more options, more support. All at a lower price than the so-called "industry standard."

The Tandy 1000 EX

Only \$1499 for a true MS-DOS based computer? It's true. The Tandy 1000 EX runs the same powerful software as an IBM® PC — at up to twice the speed! And every Tandy 1000 EX comes with our new graphics-oriented Personal DeskMate™ software with six user applications. The 1000 EX is also the perfect classroom computer.

The Tandy 1000 SX

Here's a high-performance version of Australia's #1 PC

compatible — the Tandy 1000. The new Tandy 1000 SX is still compatible with industry-standard MS-DOS software. But it can now run many of these programs 50% faster. The 1000 SX comes with 384K and two built-in disk drives — standard. You even get our enhanced six-in-one DeskMate#II applications software. All for just \$2299.

The Tandy 3000 HL

If you've already invested in IBM PC/XT® software and hardware, and would like to expand, the Tandy 3000 HL gives you four times the power of the XT... for less. The 3000 HL can process twice the data, thanks to its advanced, 16-bit 80286 microprocessor. Plus, the 3000 HL operates at twice the speed of the XT. With a Tandy 3000 HL, you're getting much more than an XT compatible — and for only \$3999.

The Tandy 3000 HD

Unmatched in performance, the Tandy 3000 HD is a powerful workstation with both networking and multiuser capabilities. It's

compatible with the IBM PC/AT®, offers hard disk storage (20 megabytes), yet is priced at \$8999.

Quality Assured

These four new computers are built in our own manufacturing plants in the U.S.A. They're designed to meet our rigid quality standards, and backed with the best support in the industry. We're proud of our new line, and we want you to see why. Come in for a demonstration.

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Machine Guide

This chapter deals with 'intelligent' devices that actually process information, i.e. computers themselves.

The Personal Computers section forms the bulk of this chapter, and like the rest of this Guide, concerns itself with single user systems. This is the time when the dream of Apple Computer's founder, that a computer could be small enough for one person to own, is probably just about complete. Laptop systems, some weighing as little as 3kg, some with 20Mb of hard disk mounted internally appear along with 32-bit systems capable of addressing 16Mb of memory, 300Mb of disk and performing up to two million instructions per second.

The IBM PC/XT/AT series and their

compatibles dominate this part of the market. The respectability of that organisation ensures a huge number of users, software writers, and almost totally compatible 'clones'. Manufacturers who designed machines with more powerful processors and who use 'point to' and 'pull down' menus, like Apple and Commodore (with the Amiga), are now offering IBM compatibility in one form or another.

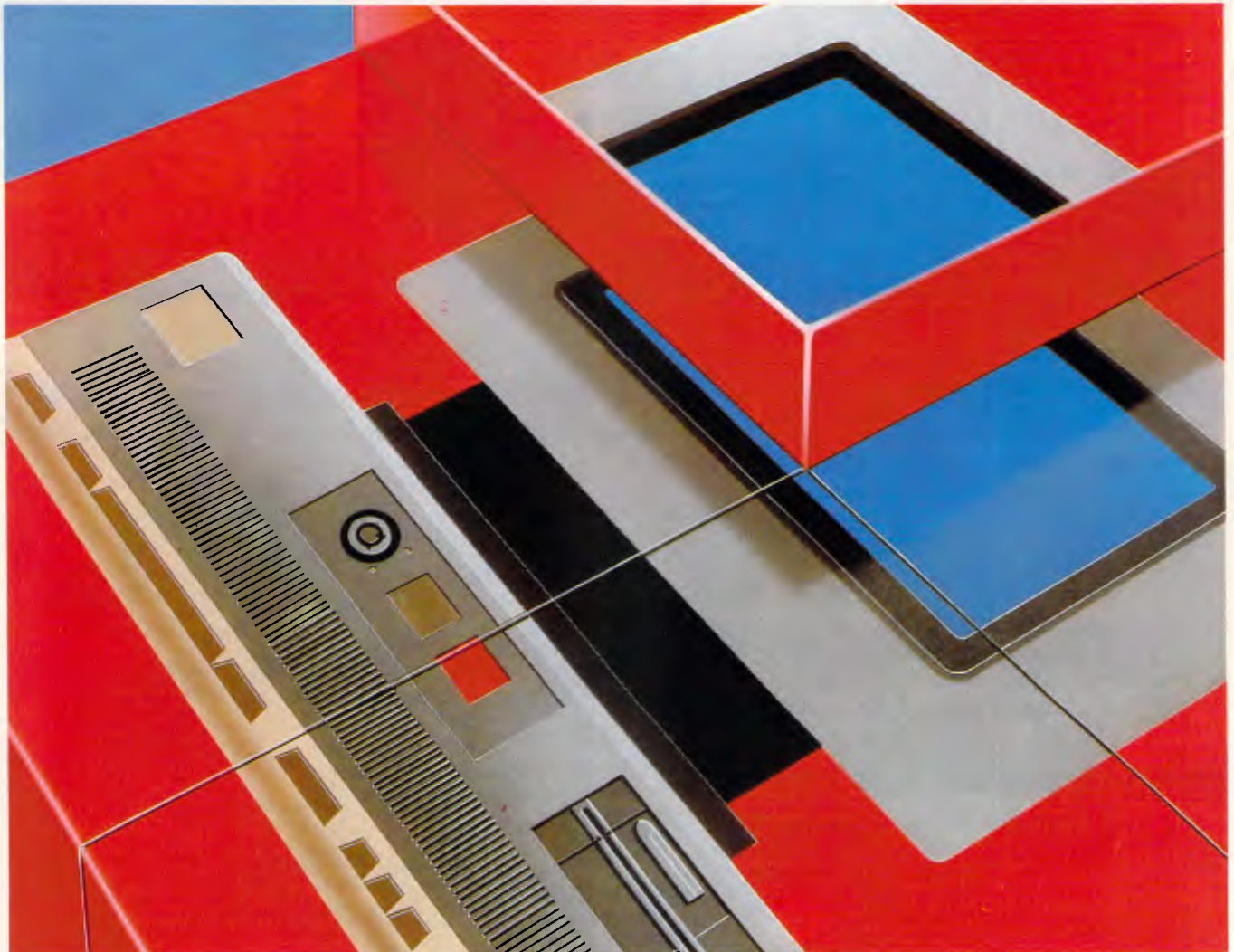
IBM, however, is all set to change the game. The range of Personal Systems from IBM has a more powerful architecture which can take full advantage of the large memories and mass storage devices. At the moment they run MS-DOS and are fully multitasking, but with the release of Operating system 2

the larger models will become multi-user as well. (Xenix on an AT already allows 3 users).

Developments like this are blurring the line between a personal computer specifically designed for one person and multi-user systems which handle a number of workstations. Networking personal computers offers one method of sharing resources but each user's processing is still done by their own PC.

In a multi-user system the processing may be handled totally, or in part, by the central computer to which the workstations are attached. These systems are listed in the multi-user micro section of this chapter.

Most of the multi-user systems



listed are Unix based systems. The Unix operating system is discussed in more detail in the *APC Buyers Guide to Software*, but worth mentioning is that it was designed completely by Bell Laboratories to be an efficient, sensible multi-user operating system for use in program development at their own laboratories. Unix has many friends but is not famous for being easy to use. But then, neither is MS-DOS.

There are some machines in this section which run a proprietary operating system exclusive to their own family. This is becoming less common as the science of linking computers progresses, causing a system which cannot share information to become a liability. It will be interesting to see how long before the first Unix comes along for the new IBM range.

This chapter also includes small pocket computers which are just a little more sophisticated than a programmable calculator and are often used to collect data and perform rudimentary analysis in the field. Many of these can be brought back to the office and the data in them downloaded to a larger computer.

Last, and least centrally, are the

workstations that attach to the multi-user micros. Some of them are little more than a video display and keyboard with enough electronics to remind the central computer that they exist. Others are complete computers with full processing power but little or no storage capacity. They share the storage of the network or central computer to which they are attached.

As workstations are primarily bought for a particular function, such as data entry or graphics, we have noted their functional

characteristics rather than their processing power. The manufacturer's description generally indicates its degree of sophistication.

Terminals are essentially what the name implies — the end of a cable. Workstations are generally slightly more independent.

Under the description of each machine appear configuration details provided to us by the supplier. Their meanings are as follows:
CPU: processor used.

Op Sys: standard operating system provided. More than one generally indicates a choice.

Memory: the standard memory

provided. If a second figure is given it is usually the maximum installable without memory expansion boards. But please check this with the vendor.

D'tte: diskette drives supplied in standard configuration.

Hard disk: capacity of the machine. The description generally details what is standard.

Display Format: the display adaptor provided or the columns x rows text format.

Monitor: the monitor provided as standard.

No. Function Keys: programmable function keys.

S'ware included: software included in the price of the machine.

Ports: Parallel (if one or more Centronics/parallel is standard) and/or RS232 (if one or more RS232/serial port(s) is standard).

Price: the retail price of the standard configuration at the time of going to press.

Where any of these items are not included in the standard configuration, where a computer has no hard disk capacity or where no information was provided, then no entry appears. If a machine interests you it is worth checking these details with the supplier.

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The D-Link PC LAN provides the most cost-effective and easy-to-use Local Area Network for IBM PC/XT/AT, as well as the IBM PC/Token-Ring Network and Novell's software compatible.



- Our D-Link adapter is not only half in size but also half in price.
- For the name of nearest authorized D-Link dealer, call us today.

Hardware Specifications:

- Topology: Distributed Bus
- Protocol: CSMA/CD
- Data Rate: 1 million bits per second, baseband
- Cable: Twisted-pair wire
- Distance: 4000ft maximum with repeaters
- Addressable Users: 255 nodes maximum
- Operating system supported:
PC-DOS 2.0, 2.1, 3.0, 3.1, 3.2
MS-DOS 2.x, 3.x

Software Specifications:

- No dedicated file server
- Peripherals sharing
- Print spooling
- Interactive message communication
- Supports File & Record Locking
- Diskless workstation capability
- Screen Monitor
- IBM NETBIOS compatible
- Run Novell's Advanced NetWare

COMPANY RESOURCES CENTRE

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* Netware is a registered trademarks of Novell, Inc.
* D-Link is a trademark of Localnet Communications, Inc.

A-STAR II

80286 processor running at 6, 8, 10 and 12MHz. Standard 'in-line pack' memory with 95ns access time. 28ms voice coil hard disk. Expansion cards allow memory of up to 16Mb. KCM can supply a LAN system manufactured by Wells American. Nationwide service is available through selected agents.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2 or higher

Memory: 1000k

D'tte: 1.2Mb

Hard Disk: Up to 250Mb

Display Format: 80 col./130 col.

No. Function Keys: 10

S'ware incl.: PC/MS-DOS 3.2, GW

BASIC 3.2

Price: P O A

Supplier: KCM Computers Pty Ltd

A200EX

The Canon A200EX is an IBM compatible which comes standard with single 1.2Mb floppy disk drive, switchable clock (6-8MHz) and standard Centronics and RS232C ports.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.1, Xenix, Pick

Memory: 640 - 1500k

D'tte: 1.2Mb

Hard Disk: 20 - 81.2Mb

Display Format: 80 x 24 lines

Monitor: Yes

No. Function Keys: 12

Ports: Parallel and RS232

Price: \$6500.00

Supplier: Canon Australia Pty Ltd

A200FD MkII

The Canon A200 MkII is an IBM compatible PC which has a switchable clock speed (4.77 - 7.16) standard 2 x 360k floppy drives, Centronics and RS232C ports. The system may be set up with an IBM, WP or data entry keyboard. This computer comes with a 10Mb hard disk replacing one of the floppies for \$4600.

CPU: 8086

Op. Sys.: PC/MS-DOS 2.11

Memory: 256 - 640k

D'tte: 2 x 360k

Hard Disk: 10 - 20Mb

Display Format: 80 x 24 lines

Monitor: Yes

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3995.00

Supplier: Canon Australia Pty Ltd

AUTOMACE

Industrial version of PC/AT with a 19"

rack mount chassis, dust sealed/forced filtered ventilation, card locking mechanism, key lock switch and heavy duty power supply.

CPU: 8088/80286

Op. Sys.: PC/MS-DOS

Memory: 256 - 640k

D'tte: 360k - 1.2Mb

Hard Disk: 10 - 20Mb

Price: \$2300.00

Supplier: MACE Machine Division

Acorn Master 128

2 x 256k cartridge sockets. ROM based software. Four sound channels. 1MHz extension bus (audio input/output). Capacity for internal or external processor. Light pen input. Cassette interface. Can be networked. The Master 512 has extra ROM and can be expanded to 512k main memory for \$2007.00. There is also a compact version of this machine available.

CPU: 65C12

Op. Sys.: MOS v 5.0

Memory: 64 - 128k

D'tte: 400k

Hard Disk: To 70Mb

Display Format: 80 x 25 (8 modes)

No. Function Keys: 10

S'ware incl.: View, Viewsheets Edit (prog

& text editor), Terminal

Ports: Parallel and RS232

Price: \$1564.00 ex tax

Supplier: Barson Computers Australasia Pty Ltd

Amiga 500/Amiga 1000/Amiga 2000

Amiga offers outstanding graphics, sound and animation capabilities. They have interfaces for attaching to electronic musical instruments, four channel stereo sound, a video (RGB/composite) interface. They are multitasking and can access 8Mb of external RAM. An optional accessory makes them IBM compatible.

CPU: 68000

Op. Sys.: Amiga DOS (MS-DOS with sidecar)

Memory: 512 - 9000k

D'tte: 880k formatted

Display Format: 80 x 25

Monitor: 1081 colour monitor included in Amiga 1000 kit

No. Function Keys: 10

Price: Amiga 500 - \$995.00, A1000 -

\$2495.00, A2000 - \$2999.00

Supplier: Commodore Business Machines

Amstrad CPC464/GT65

Complete package. Unit comes with green screen monitor, keyboard with tape recorder, numeric keypad, 8 text window, 4

real time clocks, graphic resolution up to 640 x 200 Pixels. Full edit facilities including copy cursor. 12 months guarantee. Manual. With a colour monitor this computer costs \$929.00.

CPU: Z80A

Op. Sys.: Amsdos Basic

Memory: 64k

D'tte: 180k

Display Format: 20, 40 or 80 column

Monitor: Green monitor included (GT65)

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$599.00

Supplier: Mitsubishi Electric

AWA Pty Ltd

Amstrad CPC6128/CT65

Price includes monitor, keyboard, numeric keypad, 3 inch floppy disk drive, 8 text windows, 4 real time clocks, graphics resolution up to 640 x 200 Pixels, stereo sound, full editing facilities including copy cursor. Manual. 128k memory. 12 months guarantee. With a colour monitor this version is named the CPC6128/CTM644 and costs \$1309.00.

CPU: Z80A

Op. Sys.: Amsdos, CP/M 2.2, CP/M Plus Basic

Memory: 128k

D'tte: 1 x 180k 3"

Display Format: 20, 40 or 80 column

Monitor: Green Screen (GT65)

No. Function Keys: 10

S'ware incl.: Dr. Logo, System Utilities

Ports: Parallel and RS232

Price: \$979.00

Supplier: Mitsubishi Electric

AWA

Pty Ltd

Amstrad PC1512

Full function 85 key keyboard. Paperwhite text and graphics monitor with tilt and swivel base. Quartz real time clock with battery back up. Mouse included. Tilt and swivel monitor. RS232C Serial interface. Parallel interface. Joystick port. IBM compatible. 3 month guarantee. Full colour monitor model PC1512S/PCCM is priced at \$2255 and double disk drive versions PC1512D at \$2299 (PCMM) and \$2769 (PCCM).

CPU: 8086 8MHz

Op. Sys.: PC/MS-DOS 3.2, DOS Plus,

GEM, BASIC 2

Memory: 512 - 640k

D'tte: 1 x 360k 5 1/4"

Display Format: 80 column

Monitor: Mono Paperwhite

No. Function Keys: 10

S'ware incl.: GEM Desktop/Paint

Ports: Parallel and RS232

Price: **\$1789.00 plus**
 Supplier: **Mitsubishi Electric** AWA
 Pty Ltd

Amstrad PCW8256

Built-in 3 inch floppy disk drive. Green monitor. Keyboard with dedicated word processor function keys. Comes also with Mallard BASIC, Locoscript, CP/M Plus, GSX graphics, Dr. Logo and a high quality dot matrix printer. 3 months guarantee.

CPU: **Z80A**
 Op. Sys.: **CP/M Plus**
 Memory: **256k**
 D'tte: **180k**
 Display Format: **80 or 90 column**
 Monitor: **Green**
 No. Function Keys: **8**
 S'ware incl.: **Locoscript Word processor, Dr. Logo, Utilities**
 Ports: **Parallel and RS232**
 Price: **\$1549.00**
 Supplier: **Mitsubishi Electric** AWA
 Pty Ltd

Amstrad PCW8512

Built in 3 inch 180k floppy disk drive, 1x1 m/byte 3 inch drive, keyboard with dedicated word processor function keys.

Comes also with Mallard BASIC, locoscript, CP/M Plus GSX graphics, Dr Logo and a high quality dot matrix printer. 3 months guarantee.

CPU: **Z80A**
 Op. Sys.: **CP/M Plus**
 Memory: **512k**
 D'tte: **180k & 1Mb**
 Display Format: **80 & 90 column**
 Monitor: **Green**
 No. Function Keys: **8**
 S'ware incl.: **Locoscript Wordprocessor, Dr Logo, Utilities.**
 Price: **\$1979.00**
 Supplier: **Mitsubishi Electric**
 AWA Pty Ltd

Apple IIc

Runs all software written for the Apple IIe including Appleworks and Apple Logo. Is capable of using a mouse allowing you to run Mouse Paint and other software without using the keyboard. The Apple IIc is similar to the IIe which is popular in the educational area.

CPU: **65C02**
 Op. Sys.: **PRODOS, DOS 3.3, CP/M (with card)**
 Memory: **128 - 4000k**
 D'tte: **140k/800k**

Hard Disk: **Yes**
 Display Format: **80 column**
 No. Function Keys: **2**
 Ports: **RS232**
 Price: **\$1090.00**
 Supplier: **Apple Computer** Australia
 Pty Ltd

Apple IIe

The Apple IIe has been extensively used in schools and has a wide range of educational software available for it.

CPU: **65C02**
 Op. Sys.: **PRODOS Dos 3.3**
 Memory: **128 - 4096k**
 D'tte: **140/800k**
 Hard Disk: **20 - 80Mb external**
 Display Format: **80 Column**
 No. Function Keys: **2**
 Price: **\$1495 including tax**
 Supplier: **Apple Computer** Australia
 Pty Ltd

Apple IIgs

The Apple IIgs runs most existing Apple IIe and IIc software as much as 2.8 times faster using an advanced 16-bit microprocessor. High resolution graphics and digital synthesizer sound are included

A Compact Excellence The LOGI™ Personal Computer



Physical Dimensions: 356mm x 405mm x 140mm

LOGI 286-AT Specifications:

- 16 bit 80286 CPU 6-layer PCB (6mhz/8mhz)
- Optional 80287 Co-processor
- 640K Ram on board expandable to 1Mbyte
- Eight expansion slots (6 slots for 16 bit I/O)
- Monographics or Colorgraphics Card
- Optional EGA Card
- Serial / Parallel Adaptor
- Fixed Disk and Diskette Adaptor
- Single 1.2Mbyte Floppy Disk Drive
- Optional 360K floppy disk drive
- Optional Built-in Hard Disk
- 195 watts power supply (110/220 VAC)
- 84 Keys Keyboard
- Licensed Bios
- Optional MS DOS and GW Basic (Ver. 3.2) Software and Manual

LOGI 88-XT Specifications

- 16-bit V20 CPU 4-layer PCB (4.77mhz/7.33mhz)
- Optional 8087 Co-processor
- 640K Ram on Board
- Eight Expansion Slots
- Parallel printer port
- Serial port interface
- Optional 2nd serial port
- Real time clock/calendar with battery back-up
- Joystick adaptor
- Two 360K floppy disk drives
- Optional built-in 3.5 inch 20MB hard disk drive
- Monographics or Colorgraphics card
- 135 watts power supply
- 84 Keys Keyboard
- Licensed Bios
- Optional MS DOS and GW Basic (Ver. 3.2) Software and Manual



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Universe Supercomputer now powers the world's most productive PC network.

AED have harnessed Universe, the world's most powerful microcomputer to Lynx – the most productive network for IBM PCs and compatibles.

A PLANNED GROWTH PATH

With AED's Lynx networking you have a smooth growth path from separate personal computers to a powerful multiuser system. You can start with the personal computers you have now. Then expand as your needs change or grow.

- By the addition of further PC workstations.
- By the addition of PC/AT workstations where higher performance is needed.
- By the addition of Universe Supermicros where higher performance over a large number of workstations is required.

A combination of personal computers and low cost serial terminals forms a highly efficient and economical environment.

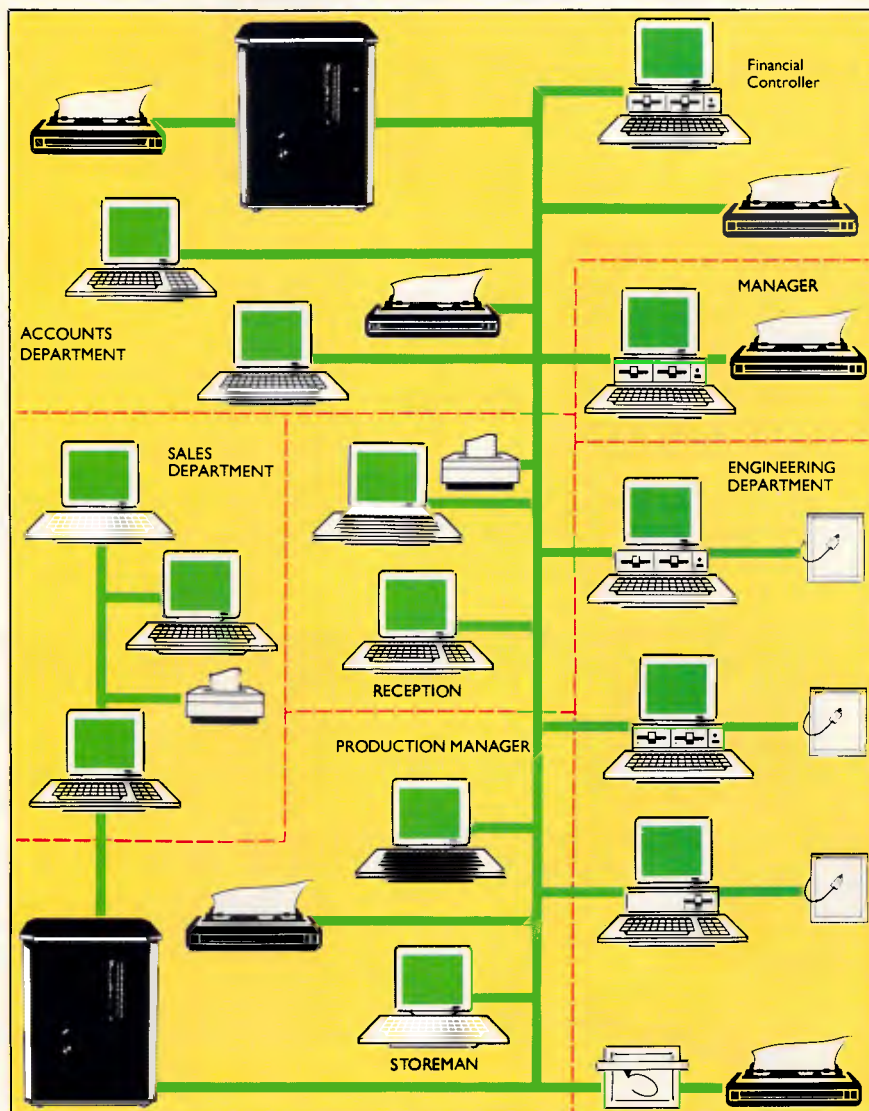
Start with a basic system with as little as two personal computers, and still get all the productivity benefits of Lynx networking.

LYNX NETWORKING RESULTS IN A UNIQUELY PRODUCTIVE ENVIRONMENT.

1 Everyone can use all network resources. This cuts down on duplication of hardware. Complete transparency means all laser printers, plotters, modems, hard disks, Electronic Telex, shared by everyone.

2 Everyone has up-to-date information, updated immediately.

3 Lynx runs all existing PC software and more. Universe extends to run the massive library of CP/M (8 bit), CP/M-86 (16 bit), MP/M (multiuser) and Concurrent DOS software. Don't get trapped with unsuitable single user



Start with as few as two personal computers and expand to a system rivaling mainframe performance. Illustrated: A Universe installation serving a medium sized company involved in engineering activities.

software – as you could with other networks.

4 Lynx provides full multiuser security. Password protection of information and software makes Lynx a safe network.

5 Lynx is simple to use and learn. We've engineered it to work in a normal office environment. And with Lynx, your training and support come from AED, the company that configured the network – and that's a service unique in Australia.



Australians, exploring and discovering

NSW:

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Unit 3, Prospect Industrial Estate,
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Phone (02) 636 7677.

ACT: AED Canberra, (062) 47 3403

VIC: AED Melbourne (03) 211 5542

QLD: Datanet (07) 832 5419,
(076) 32 2405

as standard with the Iigs.

CPU: 65C816

Op. Sys.: PRODOS, DOS 3.3, CP/M & MS-DOS with card

Memory: 512 - 8000k

D'tte: 800k external

Hard Disk: 20/40/80Mb external

Display Format: 80 column

No. Function Keys: 2

Price: \$2095.00 including tax

Supplier: Apple Computer Australia Pty Ltd

Applix 1616

The Applix 1616 is a "kit" or project computer, supplied unconstructed. Purchasers then build the system to their own specifications. When complete it is a fully functional 16/32-bit PC similar to the Atari ST or Apple Macintosh based system (running at 7.5MHz). It features: 128k ROM, 320 x 200 16 colours or 640 x 200 any 4 of 16 colours, stereo sound, cassette interface, IBM AT style keyboard, 4 x 80 pin expansion slots with all 68000 signals, centronics, 2 x RS232, joystick and general purpose ports. Inbuilt software includes powerful monitor, full screen editor, as-

sembler, terminal emulation, communications and 1616 operating system. Can be purchased fully built and tested.

CPU: 68000

Op. Sys.: 1616/OS

Memory: 512k

Display Format: 80 x 25

No. Function Keys: 10

S'ware incl.: Full screen editor, assembler, 1616/OS

Ports: Parallel and RS232

Price: Mini kit \$239, Basic kit \$449,

Keyboard \$139, Power Supply \$69

Supplier: Applix Pty Ltd

Apricot VX

Price includes 125Mb streaming tape and operating system

CPU: 80386

Op. Sys.: PC/MS-DOS or Unix

Memory: 2000 - 16000k

D'tte: 1.2Mb

Hard Disk: 70/156/268Mb

Display Format: 80 x 25

No. Function Keys: 12

S'ware incl.: Microsoft Windows

Ports: Parallel and RS232

Price: \$19464.00 (70Mb), \$22562.00

(156Mb), \$26544.00 (268Mb)

Supplier: Barson Computers Australasia Pty Ltd

Apricot Xen 386

The price includes MS-DOS operating system but Xenix is also available. This is one of the few machines taking advantage of the 32-bit 80386 processor and is available with 45Mb of hard disk for \$12739.00.

CPU: 80386

Op. Sys.: PC/MS-DOS, Xenix

Memory: 1000 - 16000k

D'tte: 1.2Mb

Hard Disk: 30Mb

Display Format: 80 x 25

No. Function Keys: 12

S'ware incl.: MS Windows

Ports: Parallel and RS232

Price: \$10084.00

Supplier: Barson Computers Australasia Pty Ltd

Apricot Xen-i

The price includes MS-DOS operating system. Unix is available should the user want it. The Apricot Xen-i supplied with 40Mb of hard disk retails at \$9730.00.

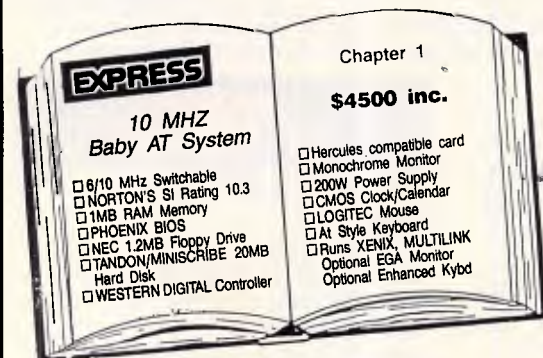


EXPRESS XT BONUS PACKAGE \$2150 inc.

- a. 640K Turbo Dual NATIONAL Floppy Drive +
- b. THOMSON Hi-Res Composite Monitor +
- c. STAR NX-10 Dot Matrix Printer
(10" 120cps 5K Buffer) with printer cable +
- d. A complete set of documentation.

EXPRESS XT SUPER BONUS PACKAGE \$2850 inc.

- a. 640K Turbo Single NATIONAL Floppy Drive +
- b. 20MB TANDON/MINISCRIBE Hard Disk +
- c. OMTI/WESTERN DIGITAL Hard Disk Controller +
- d. STAR NX-10 Dot Matrix Printer
(10" 120cps 5K Buffer) with printer cable +
- e. A complete set of documentation.



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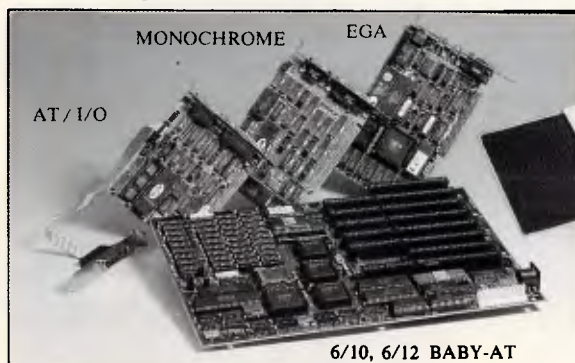
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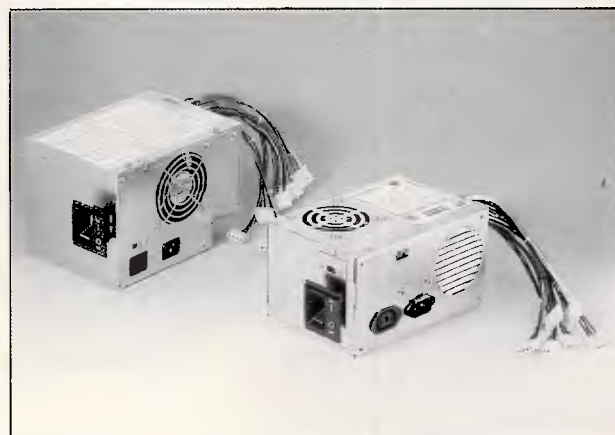
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CPU: 80286Op. Sys.: **PC/MS-DOS, Unix**Memory: **1000 - 8000k**D'tte: **1.2Mb**Hard Disk: **20 and 40Mb**Display Format: **8 x 24**No. Function Keys: **10**S'ware incl.: **Windows**Ports: **Parallel and RS232**Price: **\$7960.00**Supplier: **Barson Computers Australasia Pty Ltd****Atari 520ST**

Atari 520ST is easy to use, using mouse with digital research Gem. High definition fast video system, fast 68000 processor. Hard disk option. Includes a midi music interface for which a variety of programs are also available. A version with 1Mb of main memory is available for \$2195.00 (mono) or \$2495.00 (colour).

CPU: **68000**Op. Sys.: **Atari TOS + D/R GEM (in ROM)**Memory: **512k**D'tte: **360 or 720k**Hard Disk: **20Mb**Display Format: **80 x 25**Monitor: **Yes**No. Function Keys: **10**S'ware incl.: **BASIC, LOGO, 1ST****WORD (WP), Video graphics.**Ports: **Parallel and RS232**Price: **\$1895.00 colour monitor, \$1495.00 monochrome monitor.**Supplier: **Mobex Pty Ltd****Atlantis AT**

The Atlantis AT is an IBM AT compatible running at either 6 or 8MHz. Supplied as standard is a 4 layer motherboard with 640k RAM, two 1.2Mb floppy disks, 20Mb hard disk, a 200 watt power supply, Hercules monochrome or colour graphics card, MS-DOS 3.10 and a 300 page manual. Also included is a full 12 month warranty. This machine also comes with an EGA card for an extra \$700.

CPU: **80286-8**Op. Sys.: **PC/MS-DOS 3.10**Memory: **640k**D'tte: **1.2Mb x 2 drives**Hard Disk: **20Mb**Display Format: **80 x 25**Monitor: **Optional**No. Function Keys: **10**S'ware incl.: **Word Processor, Database**Ports: **Parallel and RS232**Price: **\$4995.00 incl. tax**Supplier: **Atlantis International Computers****Atlantis PC/XT**

The Atlantis PC/XT is a fully featured IBM compatible. Standard features are dual 360k floppy drives, 640k RAM, multi-function board with parallel, serial and joystick ports and a battery backed clock/calendar. Also included are MS-DOS 3.10, 300 page manual and Award BIOS to ensure compatibility. The machine is supported by a 12 month warranty by Datacraft Australia wide.

CPU: **8088**Op. Sys.: **PC/MS-DOS 3.10**Memory: **640k**D'tte: **2 drives x 360k**Hard Disk: **20Mb optional**Display Format: **80 x 25, 640 x 200 graphics**Monitor: **Optional**No. Function Keys: **10**S'ware incl.: **Word Processor, Database**Ports: **Parallel and RS232**Price: **\$1695.00 including tax**Supplier: **Atlantis International Computers****Atlantis Turbo**

The Atlantis Turbo is a fast version of the IBM PC/XT. With a clock speed of 8MHz, the Turbo runs at 1.7 times the speed of a standard PC. The Turbo also includes the standard features of the Atlantis PC/XT. The Turbo comes with a 4 layer motherboard and a large 150 watt power supply.

CPU: **8088-2**Op. Sys.: **PC/MS-DOS 3.10**Memory: **640k**D'tte: **2 drives x 360k**Hard Disk: **20Mb optional**Display Format: **80 x 25**Monitor: **Optional**No. Function Keys: **10**S'ware incl.: **Word Processor, Database**Ports: **Parallel and RS232**Price: **\$1895.00 incl. tax**Supplier: **Atlantis International Computers****BIT CLONE 86**

Fully IBM AT compatible with Hercules Monochrome Graphics and a 20Mb hard disk as standard. A Blitzer modem is also included and a TTL port is provided.

CPU: **80286/2**Op. Sys.: **PC/MS-DOS 3.2**Memory: **1024k**D'tte: **1 x 360k**Hard Disk: **32Mb**Display Format: **80 x 25**No. Function Keys: **10**Ports: **Parallel and RS232**Price: **\$2595.00**Supplier: **Mike Boorne Electronics****BIT CLONE 88**

Fully IBM XT compatible with Hercules Monochrome graphics and a 20Mb hard disk as standard. A Blitzer modem and AT style keyboard are also included.

CPU: **8088/2**Op. Sys.: **PC/MS-DOS 3.2**Memory: **640k**D'tte: **1 x 360k**Hard Disk: **20Mb**Display Format: **80 x 25**No. Function Keys: **10**Ports: **Parallel and RS232**Price: **\$2595.00**Supplier: **Mike Boorne Electronics****Baby Blue**

The Baby Blue is a low cost fully IBM PC compatible machine with RGB and composite video ports, battery backed clock and enhanced AT style keyboard as standard.

CPU: **8088-2**Op. Sys.: **PC/MS-DOS**Memory: **256 - 1000k**D'tte: **360k**Hard Disk: **32Mb**Display Format: **RGB or Hercules**No. Function Keys: **12**Ports: **Parallel and RS232**Price: **\$997.00 including tax**Supplier: **Barrington Corporation****Barson PC**

Basic system includes serial/parallel port, colour and Hercules graphics.

CPU: **8088-2**Op. Sys.: **PC/MS-DOS**Memory: **512 - 640k**D'tte: **360k**Display Format: **80 x 25**Monitor: **Yes**No. Function Keys: **10**Ports: **Parallel and RS232**Price: **\$1499.00**Supplier: **Barson Computers Australasia Pty Limited****Basic Time BT/XT**

This IBM PC/XT compatible will run software and accept hardware accessories for the IBM PC-AT. A colour graphics card is included as standard but it may be supplied with EGA or mono graphics adaptors and single or double diskette drives.

CPU: **8088-2**Op. Sys.: **PC/MS-DOS 3.1**Memory: **640k**D'tte: **1 x 360k**Hard Disk: **20Mb**Display Format: **80 x 25**No. Function Keys: **10**S'ware incl.: **Dir file management**



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Ports: **Parallel and RS232**
 Price: **\$3399.00**
 Supplier: **Basic Time**

Basic Time PC/AT

This IBM PC/AT compatible comes standard with a Hercules or colour graphics adaptor and may optionally be fitted with EGA and two diskette drives. It also has the option of another board with 2Mb of RAM on board. Up to 4Mb of RAM may be fitted using memory expansion cards.
 CPU: **80286-2**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640 - 2048k**
 D'tte: **1 x 1.2Mb**
 Hard Disk: **32Mb**
 Display Format: **HMD**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$6000.00**
 Supplier: **Basic Time**

Bondwell BW18

This tansportable MS-DOS 2.11 computer weighs 13.2 kg and comes standard with 640K RAM a 9" monochrome monitor and 2 360kb diskette drives.
 CPU: **8088**
 Op. Sys.: **MS-DOS 2.11**
 Memory: **640k**
 D'tte: **2 x 360k 5 1/4"**
 Monitor: **9" Monochrome**
 No. Function Keys: **10**
 Price: **\$1950.00 including tax**
 Supplier: **Micro EDP & Hardware**

Bondwell BW8

This laptop MS-DOS 2.11 machine weighs only 4.5kg. It is completely self contained with 512kb of RAM a 720 kb diskette drive backlit LCD screen and batteries.
 CPU: **8088**
 Op. Sys.: **MS-DOS 2.11**
 Memory: **512k**
 D'tte: **1 x 720k**
 Monitor: **Backlit LCD**
 Price: **\$1800.00 including tax**
 Supplier: **Micro EDP & Hardware**

Bondwell PC-AT Benchtop

CPU: **80286 6 - 8MHz**
 Op. Sys.: **MS-DOS 3.2**
 Memory: **512k**
 D'tte: **1 x 1.2Mb 5 1/4"**
 Hard Disk: **20Mb standard**
 Display Format: **Hercules Colour**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$4200.00 including tax**
 Supplier: **Micro EDP & Hardware**

Bondwell PC-XT Benchtop

CPU: **8088 4.77Mhz**
 Op. Sys.: **MS-DOS 2.11**
 Memory: **640k**
 D'tte: **1 x 360k 5 1/4"**
 Hard Disk: **20Mb standard**
 Display Format: **CGA**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$2500.00 including tax**
 Supplier: **Micro EDP & Hardware**

Business Pro Professional Computer

Ideal for single user development system for expert systems etc. Also for use as a LAN server or as a multi-user system for small businesses running Xenix V O/S. Features "Turbo" mode which eliminates memory wait states and provides up to 30% performance improvement.
 CPU: **80286**
 Op. Sys.: **PC/MS-DOS, Xenix**
 Memory: **512 - 15000k**
 D'tte: **360k/1.2Mb**
 Hard Disk: **20/40/72/140Mb**
 Display Format: **25 lines x 80 columns**
 Monitor: **Yes**
 No. Function Keys: **12**
 Ports: **Parallel and RS232**
 Price: **\$11675.00**
 Supplier: **Texas Instruments Australia Limited**

CHEN-AT100M

The Chendai AT (Advanced Turbo) is a fast and powerful machine. The Chendai AT series uses an 80286 processor operating at 12MHz. IBM compatible, the Chendai AT has the flexibility and capacity to accommodate growth for networking and multi-user applications. Standard features include the enhanced RT layout keyboard, external reset switch and full 6 month warranty.
 CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.1**
 Memory: **640 - 8000k**
 D'tte: **1.2Mb**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **TTL Monochrome**
 No. Function Keys: **12**
 Ports: **Parallel and RS232**
 Price: **\$3995.00 incl. tax**
 Supplier: **Chendai Australia Pty Ltd**

CHEN-PC

This PC compatible machine comes with fully loaded RAM Hercules graphics adaptor and games port as standard. The Chen-

PC-ET uses the 8088-2 processor and is switchable between 4.77 and 8MHz clock speeds. The ET comes with the MGA graphics adaptor and retails for \$2227.00.
 CPU: **8088**
 Memory: **640k**
 D'tte: **2 x 360k**
 Display Format: **HGA**
 Monitor: **Monochrome**
 Ports: **Parallel and RS232**
 Price: **\$2071.00**
 Supplier: **Chendai Australia Pty Ltd**

CPC AT

This AT compatible has facility for an 8087 coprocessor. It features a four layer motherboard and comes standard with a multifunction card, graphics card, hard disk and both 5.25" format diskette drives. A transportable version with a 9" monochrome monitor is available for \$3470.00.
 CPU: **80286**
 Op. Sys.: **PC/MS-DOS**
 Memory: **1000k**
 D'tte: **360k and 1.2Mb**
 Hard Disk: **20Mb**
 Display Format: **CGA or MGA**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$3290.00**
 Supplier: **Cartel Personal Computers**

CPC XT-Turbo

This XT compatible has facility for an 8087 coprocessor. It features a four layer motherboard and comes standard with a multi-function card and two diskette drives. A hard disk is optional for an extra \$40.00. A transportable version with a 9" monochrome monitor for \$1890.00.
 CPU: **8088-1**
 Op. Sys.: **PC/MS-DOS**
 Memory: **640k**
 D'tte: **2 x 360k**
 Hard Disk: **20Mb**
 Display Format: **CGA or MGA**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$1260.00 plus O/S.**
 Supplier: **Cartel Personal Computers**

CPlus CP286

The CPlus 286 is an IBM AT compatible using a four layer mother board with switchable clock speeds. It comes standard with ABLE-1 integrated software and GW BASIC. It is assembled and tested in Australia.
 CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640 - 1024k**
 D'tte: **1 x 1.2Mb**
 Hard Disk: **20Mb**

Monitor: **Monochrome**
 No. Function Keys: **10**
 S'ware incl.: **GW BASIC, ABLE-1**
 Ports: **Parallel and RS232**
 Price: **\$4200.00**
 Supplier: **CPlus Micros**

CPlus CP88

The CPlus 88 is an IBM XT compatible with a four layer motherboard and switchable clock speed. It has an AT style keyboard and case and comes with ABLE-1 integrated software and GW BASIC.
 CPU: **8088-2**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640k**
 D'tte: **2 x 360k**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 No. Function Keys: **10**
 S'ware incl.: **GW BASIC, ABLE-1**
 Price:
 Supplier: **CPlus Micros**

CUBIC

The CUBIC system is an XT compatible with an AT style keyboard that has positive click. It is made by a Singapore company with backing from the Singapore Government and uses proprietary BIOS.
 CPU: **8088-2**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640k**
 D'tte: **2 x 360k**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **Colour**
 No. Function Keys: **10**
 S'ware incl.: **GW BASIC**
 Price: **\$2950.00**
 Supplier: **KCM Computers Pty Ltd**

Century 386

CPU: **80386**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **512k**
 D'tte: **1.2Mb**
 Hard Disk: **30Mb**
 Ports: **Parallel and RS232**
 Price: **P O A**
 Supplier: **Abacus Computers & Abacus Software**

Century AT

CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **512k**
 D'tte: **1.2Mb**
 Hard Disk: **20Mb voice coil**
 Ports: **Parallel and RS232**
 Price: **P O A**
 Supplier: **Abacus Computers & Abacus Software**

Chendai LAPII

The Chendai LAPII is a lap top computer with an internal 20Mb hard disk drive, and a 5.25" 360k floppy disk drive as well. Weighing in at only 7.5 kilos it is a powerful personal computer in a totally portable package. Standard with the Chendai LAPII is a Blue-mode SBE back-lit non-glare screen which can be read under any lighting condition and at almost any angle.
 CPU: **80186**
 Op. Sys.: **MS-DOS 3.1**
 Memory: **640 - 12000k**
 D'tte: **360k**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **LCD screen**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$4995.00**
 Supplier: **Chendai Australia Pty Ltd**

Cleveland 286 & 286/SP

Australian made PC/AT compatible. Switchable clock 8/6MHz. Totally AT compatible. Runs Pick, Xenix and DOS. The Cleveland 286 runs the Cleveland 286 BIOS written in Australia by Computer Corporation of Australia. To use high capacity hard disks (e.g. 40, 80Mb) specify Cleveland 286/SP. CGA card included and MGA, EGA are also available.
 CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640 - 1000k**
 D'tte: **1.2Mb or 360k**
 Hard Disk: **20Mb expandable to 80Mb**
 Display Format: **CGA/MGA/EGA 80 x 25**
 No. Function Keys: **10**
 S'ware incl.: **GW BASIC 3.2**
 Ports: **Parallel and RS232**
 Price: **\$4575.00 including tax**
 Supplier: **Computer Corporation of Australia Pty**

Cleveland PCII & PCII/SP

Cleveland PCII is a fast 100% PC/XT compatible using the Intel 80186 processor. It is available in a standard profile (SP) small footprint configuration with 6 PC and 2 AT-style expansion slots. It features a high Australian content and runs with the Cleveland 186 BIOS. The CGA 640 x 200 4 colour graphics adaptor is standard. MGA & EGA are available.
 CPU: **80186**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640k**
 D'tte: **360k**
 Hard Disk: **20Mb expandable to 80Mb**

Display Format: **80 x 25**
 No. Function Keys: **10**
 S'ware incl.: **GW BASIC 3.2**
 Ports: **Parallel and RS232**
 Price: **\$3549.00 including tax**
 Supplier: **Computer Corporation of Australia Pty**

Cleveland XT & XT/SP

The Cleveland XT is a small footprint, Australian made PC/XT compatible, featuring the Cleveland BIOS, 180 watt power supply and finished in vinyl-clad steel. Options include XT, AT & RT style keyboards and a variety of display adaptors. CGA, 640 x 200 4 colours is standard, MGA and EGA also available. The Cleveland XT/SP (standard profile) is a Cleveland XT in the standard 'PC' size case allowing 8 full length expansion slots and full height hard disk drives.
 CPU: **8088**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640k**
 D'tte: **1 x 360k**
 Hard Disk: **20Mb expandable to 80Mb**
 Display Format: **80 x 25 (CGA)**
 No. Function Keys: **10**
 S'ware incl.: **GW BASIC 3.2**
 Ports: **Parallel and RS232**
 Price: **\$2842.00 including tax**
 Supplier: **Computer Corporation of Australia Pty**

Color Computer 3

A small portable computer which attaches to a colour monitor to give four colours at 640 x 200 pixel resolution graphics. Up to 16 out of 64 colours are available at lower resolutions. Can be attached to disk drives, printers and modems through a cassette interface, two joystick ports, 4-pin RS232C port and video/monitor outputs. Programs can be loaded from Program Paks.
 CPU: **6809**
 Op. Sys.: **BASIC**
 Memory: **128 - 512k**
 Display Format: **32 x 16, 40 x 25, 80 x 25**
 No. Function Keys: **2**
 Ports: **RS232**
 Price: **\$449.95**
 Supplier: **Intertan**

Compaq Deskpro 286

Fast 12MHz 80286 microprocessor. Up to 80Mb high-performance fixed disk storage. Access time less than 30 milliseconds. 40Mb internal fixed disk tape backup option. Optional 8MHz 80287 coprocessor for faster mathematical calculations, CAD/CAE, spreadsheets and databases, memory expansion up to 10Mb.



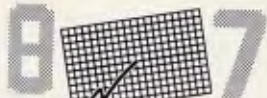
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SPECIFICATION:

80286 4 Layer Motherboard
6,8,10 MHz Clock Speed
1.2 Mb floppy
Nec Hard Disk Drive
Hard Disk Drive, floppy Drive

Controller(Supports 4 Drives)
Color Graphics Card
Green Screen Monitor
Power Supply and Keyboard
6 months Warranty

CPU: 80286
 Op. Sys.: PC/MS-DOS 3.2, SCO Xenix v.2.2
 Memory: 640 - 2200k
 D'tte: 1.2Mb
 Monitor: Option of Compaq colour or green/amber mono
 No. Function Keys: 10
 Ports: Parallel and RS232
 Price: \$5700.00
 Supplier: CCA Systems Pty Ltd

Compaq Deskpro 386

Full 32-bit address and data bus. Advanced 80386 processor operating at 16MHz, industry standard 8MHz 8/16-bit expansion bus, 128k fast access memory used for system ROM, 256k fast access memory available as either L-I-M specification expanded memory (expandable to 8Mb using extended memory) or RAM disk storage. Compaq enhanced graphics adaptor BIOS mapped into fast memory.

CPU: 80386
 Op. Sys.: PC/MS-DOS 3.2, SCO Xenix v.2.2
 Memory: 1000 - 14000k
 D'tte: 1.2Mb
 Hard Disk: 40/70/130Mb
 Monitor: Option of Compaq colour or green/amber mono

No. Function Keys: 10
 S'ware incl.: CEMM.EXE, CEMM.COM, VDISK.SYS
 Ports: Parallel and RS232
 Price: \$14250.00 without display
 Supplier: CCA Systems Pty Ltd

Compaq Portable III

Small, light, full-function portable. Runs at 12MHz or 8MHz. Self-contained in single unit with high resolution text and graphics plasma display, full size detachable keyboard, shock-mounted internal fixed disk drives and 8MHz 80287 coprocessor socket. Optional desktop pedestal makes it a full-function, small footprint desktop personal computer.

CPU: 80286
 Op. Sys.: PC/MS-DOS 3.2, SCO Xenix v.2.2
 Memory: 640 - 6600k
 D'tte: 1.2Mb
 Hard Disk: 40Mb
 Monitor: Gas plasma dual mode adjustable
 No. Function Keys: 10
 Ports: Parallel and RS232
 Price: \$9671.00
 Supplier: CCA Systems Pty Ltd

Cordata 400 series

The basic Cordata 8100 comes standard with 2 x 360k diskette drives. The 8060 has 20Mb hard disk and is available for \$4,866.00. (No monitor is included in either of these models.) The 8103 and 8063 (double floppy and 20Mb respectively) have an integral 400 line monochrome graphics monitor and sell for \$3997.00 and \$5249.00 respectively.

CPU: 8088
 Op. Sys.: PC/MS-DOS
 Memory: 512 - 640k
 D'tte: 2 x 360k
 Hard Disk: 20Mb
 Display Format: 80 x 25
 Ports: RS232
 Price: \$3615.00
 Supplier: Infocorp Pty Ltd

Cordata AT Desktop series

The ATD-1 has one 1.2Mb diskette drive. The ATD-20 has 20Mb of hard disk and retails for \$7,300. The ATD-40-MT, 40Mb of hard disk and a 60Mb tape cartridge backup. It retails for \$17,797. All systems feature a video card which will run high resolution colour or monochrome monitors.

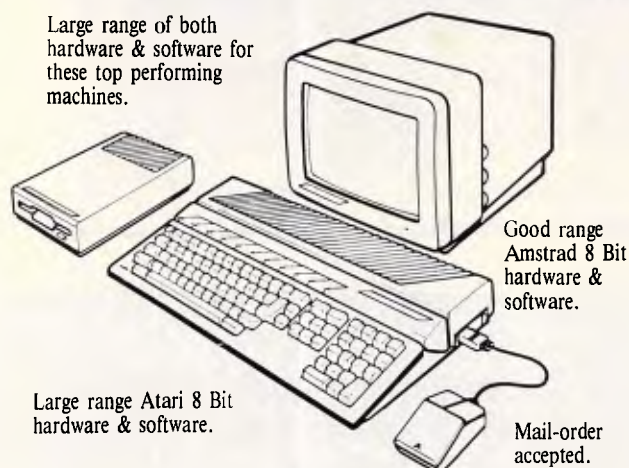
CPU: 80286
 Op. Sys.: PC/MS-DOS
 Memory: 512k
 D'tte: 1 x 1.2Mb
 Hard Disk: 20Mb
 Monitor: 400 line monochrome graphics
 No. Function Keys: 10
 Ports: Parallel
 Price: \$5560.00
 Supplier: Infocorp Pty Ltd

Cordata AT Portable series

The ATP-1 comes standard with one 1.2Mb diskette drive. The ATP-20 has 20Mb of hard disk and retails for \$7490.00. Both machines have an in-built monitor and switchable video card which can run the in-built monitor or an external colour monitor. A battery backed clock/calendar is on the main board.

CPU: 80286
 Op. Sys.: PC/MS-DOS
 Memory: 512k
 D'tte: 1 x 1.2Mb
 Hard Disk: 20Mb
 Monitor: 400 line monochrome graphics
 No. Function Keys: 10
 Ports: Parallel and RS232
 Price: \$5752.00
 Supplier: Infocorp Pty Ltd

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BROTHER MA1109AP — to suit Apple's with tractor feed & cable	\$512
BROTHER M1409 — 180 cps, 110 col, 9 pin head, NLQ tractor & friction dot graphics, dual interfaces	\$820
BROTHER M1409 — Cut Sheet Feeder	\$270

DOT MATRIX 136 COL

BROTHER M1509 — 180 cps, 9 pin head tractor & friction feed dual interfaces	\$795
BROTHER M1709 — 240 cps, 9 pin head tractor & friction feed dual interfaces & paper parking	\$995
BROTHER M1509 & 1709 — Cut Sheet Feeder	\$280
BROTHER M170, M1509 & M1409 Front Cartridge	\$192
BROTHER M1509 & M1409 16k Buffer	\$192
BROTHER M2024L — 160 cps, 24 pin head friction & tractor feed	\$1,250
BROTHER M2024L — Cut Sheet Feeder — A4 size	\$498

DAISY WHEEL 136 COL

BROTHER HR20 — 22 cps, dual interfaces & friction feed	\$914
BROTHER HR20 — Cut Sheet Feeder (suits HR15XL also)	\$498
BROTHER HR20 — Tractor Feed (suits HR15XL also)	\$228
BROTHER HR series External Keyboard	\$543
BROTHER HR35 — 33 cps, dual interfaces, friction feed	\$1,537
BROTHER HR 35 — Cut Sheet Feeder	\$498
BROTHER HR35 — Tractor Feed	\$228
BROTHER HR35DD — Twin writer, 36 cps Daisy wheel and 140 cps Dot matrix parallel interface	\$2,492
BROTHER HR35DD — Cut Sheet Feeder	\$592
BROTHER HR35DD — Tractor Feed	\$270

GENERAL

INTEL — 80287 Maths Co-processor to suit standard 6MHz IBM AT and compatibles	\$505
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INTEL — 8087/2 8MHz Maths Co-processor to suit 8MHz (turbo) IBM compatibles	\$405
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PC Off-Desk stand — Gives back your desktop	\$37
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NEC — D5126 20MB (80mS) Half Height hard disk drive, chamber only	\$820
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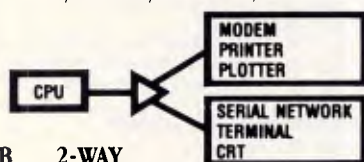
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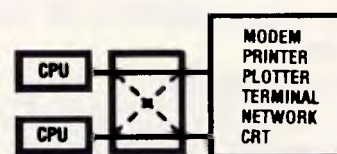
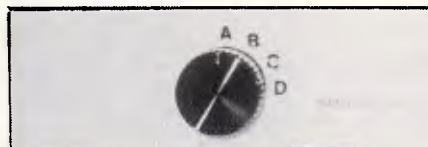
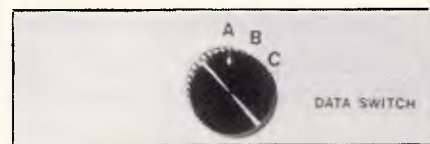
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SuperCom II is the fully-supported Australian Communications Software for the PC/PC XT/PC AT and Compatibles. Out-talks CrossTalk with full Viatel support and Terminal mode! Buy Australian-made & save!! THE RIGHT PACKAGE FOR BOTH CORPORATE AND EXPERT USER

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Very complete terminal emulation facilities are provided. Terminals which may be selected directly from the menu include:

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- plus many more - over 40 in total.

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For those needing to use IBM programs remotely, the Supercom 'Photostat' facility is essential. Unlike the normal DOS mode provided with other comms packages, 'Photostat' provides access to the screen, essential for many popular PC programs, including Lotus, Open Access, Enable and WordStar.

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FTC Portable AT

- * Intel 80286-8 CPU, 32K AMI Legal BIOS.
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- * 6/8/10 MHZ by software and hardware switchable.
- * 1/4MB Ram on board (41256/1MB DRAM)
- * 2 Floppy Drives (1.2MB or 360KB)
- * Mono/Graph/Printer or Color/Graph/Printer.
- * 220W Power Supply.
- * 20MB Or 40MB Hard disk can be fitted.
- * 9" Monitor: Amber or Paper White
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- * Operating System: MS-DOS 3.1
- * Size: 62.5 x 62.5 x 34 cm



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DACOS PC-AT

The DACOS PC-AT is a high quality IBM compatible personal computer fully conversant with IBM software. It can be provided with standard configurations ex-stock or can easily be tailor-made to conform with individual requirements and specifications.

CPU: 80286

Op. Sys.: PC/MS-DOS, Xenix

Memory: 512k

D'tte: 1 x 1.2Mb

Monitor: Hi res colour and mono graphics. Enhanced option.

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3061.54 including tax

Supplier: Data Cable

DACOS PC-XT Turbo

The DACOS PC-XT Turbo is a high quality IBM/XT compatible personal computer that is fully conversant with IBM software.

CPU: 8088-2

Op. Sys.: PC/MS-DOS, Xenix

Memory: 640k

D'tte: 360k

Hard Disk: 20Mb expandable

Monitor: Hi res colour and mono graphics. Enhanced option.

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$1603.44 including tax.

Supplier: Data Cable

DSE Multitech 700

Selectable 8MHz/4.77MHz CPU Speed by software or firmware. IBM PC compatible. 2 x RS232C, 2 parallel ports (with MGA card). Hercules MGA display compatible. Real time clock. 6 months on site service in mainland capital cities. Optional 20Mb hard drive card, colour graphic display, enhanced graphic display. Available with 20Mb hard disk, Microsoft windows and mouse at \$4595.00.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.10

Memory: 640k

D'tte: 2 x 360k

Hard Disk: Optional 20Mb

Display Format: 80 x 25 monographic adaptor

Monitor: 12" TTL Green

No. Function Keys: 10

S'ware incl.: PFS First choice

Ports: Parallel and RS232

Price: \$2995.00

Supplier: Dick Smith Electronics Pty Ltd

DSE Multitech S500

IBM PC compatible running at 4.77MHz.

Real time clock. IBM colour graphic display compatible. Also available with 2 disk drives, PFS first choice integrated software and 6 months on site service at \$1695.00.

CPU: 8088

Op. Sys.: PC/MS-DOS 2.11/3.1

Memory: 256 - 512k

D'tte: 1 x 360k

Hard Disk: Optional 20Mb

Display Format: 80 x 25 (Colour)

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$995.00

Supplier: Dick Smith Electronics Pty Ltd

DSE Multitech 900 Package

IBM AT compatible with 10MHz/6MHz CPU speed. 2 serial RS232C and 2 parallel ports, and optional 40Mb or 65Mb hard disk units. 6 months on site service in mainland capital cities. Optional colour graphic display or enhanced graphic display. Optional 1.2Mb or 360k add on floppy drive.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2

Memory: 512 - 1024k

D'tte: 1.2Mb

Hard Disk: 20Mb

Display Format: 80 x 25 Monographic Adaptor

Monitor: Monographic Monitor

No. Function Keys: 10

S'ware incl.: Open Access 2

Ports: Parallel and RS232

Price: \$6995.00

Supplier: Dick Smith Electronics Pty Ltd

DSS-AT 10

A fully IBM AT compatible machine that features dynamic speed switching which allows the processor to run at 10MHz if the software can support that speed.

CPU: 80286-10

Op. Sys.: PC/MS-DOS

Memory: 1024k

D'tte: 1 x 1.2Mb

Hard Disk: To 32Mb

Display Format: HMD

Monitor: Monochrome

No. Function Keys: 12

Price: \$4740.00

Supplier: Computer Control

DSS-AT 8 Portable

A fully IBM AT compatible machine with two parallel ports and HMD graphics adaptor. It features dynamic speed switching so it will automatically run at 8MHz if the

software can run at that speed.

CPU: 80286

Op. Sys.: PC/MS-DOS

Memory: 1024k

D'tte: 1.2Mb

Hard Disk: To 32Mb

Display Format: 80 x 25

Monitor: Monochrome

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$4774.00

Supplier: Computer Control

DSS-XT 8

A fully IBM XT compatible computer incorporating dynamic speed switching (the processor automatically runs at 8MHz if the software is capable of being run at that speed). A portable version of this machine is also available for \$2795 with a built in monitor.

CPU: 8088

Op. Sys.: PC/MS-DOS

Memory: 768 - 2560k

D'tte: 1 x 360k

Hard Disk: 21Mb

Display Format: 80 x 25

Monitor: Monochrome

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$2404.00

Supplier: Computer Control

Dataland '8000 Series'

Excellent PC/XT compatible. AT style case & keyboard. 100% compatible (BASIC is G'BASIC). Dual processor speed (TURBO). 150W power supply. Mono/colour graphics board is standard.

CPU: 8088

Op. Sys.: PC/MS-DOS

Memory: 640 - 1000k

D'tte: 2 x 360k

Hard Disk: 30Mb

Display Format: 80 x 25

No. Function Keys: 10

Ports: Parallel

Price: \$1490.00

Supplier: Data Parts

Datatel DPC 286 (AT compatible)

IBM PC AT compatible assembled in Australia by Datatel. Datatel offers a wide range of options including very high resolution full A4 page screens for desktop publishing. Also available are many comms boards for DEC, HP, IBM, etc and high speed voice coil hard disk drives to 80Mb.

CPU: 80286

Op. Sys.: PC/MS-DOS

Memory: 512 - 3000k

D'tte: 380k & 1.2Mb

Hard Disk: **To 80Mb**
 Display Format: **80 x 25 (optional 132 x 66)**
 Monitor: **Yes**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$5499.00 plus tax**
 Supplier: **Datatel Pty Ltd**

Datatel DPC 86 (XT compatible)

IBM PC XT compatible assembled in Australia by Datatel. Datatel offers a wide range of options including very high resolution full A4 page screens for desktop publishing which display both text and graphics in full just as the subsequent laser printout will be. Also available are many comms boards for DEC, HP, IBM, etc and high speed voice coil hard disk drives to 80Mb.

CPU: **8086**
 Op. Sys.: **PC/MS-DOS**
 Memory: **256 - 640k**
 D'tte: **2 x 380K**
 Hard Disk: **80Mb**
 Display Format: **80 x 25 (optional 132 x 66)**
 Monitor: **Yes**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$1955.00 plus sales tax**
 Supplier: **Datatel Pty Ltd**

Datavue 2302 Portable Computer

The Datavue 2302 consists of two 3.5" internal floppy disk drives, built in RAM drive software with ingenious power alternatives. The Datavue's 7 expansion ports combined with its ability to be upgraded to 1.3 Mb of RAM, makes a powerful portable.

CPU: **80C88 16 bit**
 Op. Sys.: **PC/MS-DOS 2.11 or higher**
 Memory: **256 - 1300k**
 D'tte: **720k**
 Display Format: **80 x 25**
 Monitor: **Fluorescent backlit, or gaslight display**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$3595.00 plus tax.**
 Supplier: **Intelligent Systems Australia**

Datavue 2402GL Portable Computer

The Datavue 2402GL consists of 3.5" internal floppy disk drive, 3.5" 20Mb internal hard drive, built in RAM

drive software, and amber gaslight display. The Datavue also has the ability to be expanded to a full 1.3Mb of RAM. The Datavue is fully compatible with the IBM PCs.

CPU: **80C88 16-bit**
 Op. Sys.: **PC/MS-DOS 2.11 or higher**
 Memory: **256 - 1300k**
 D'tte: **720k**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **Amber gaslight screen with 50000 hour life**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$5595 plus tax**
 Supplier: **Intelligent Systems Australia**

Datavue 2502 Portable

IBM compatible, the Datavue is a durable but true portable weighing under 6.5 kg. It consists of a 5.25" internal floppy disk drive, built in RAM drive software and ingenious power alternatives. It also has the ability to expand to a desktop system.

CPU: **80C88**
 Op. Sys.: **PC/MS-DOS 2.11 or higher**
 Memory: **256 - 1300k**
 D'tte: **360k**
 Display Format: **80 x 25**
 Monitor: **Fluorescent Backlit, or gaslight display.**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$1995.00**
 Supplier: **Intelligent Systems Australia**

Deskmate 286 "My Personal Computer"

Turbo 6/8MHz, 1.2Mb FDD, 1Mb memory installed, Hercules compatible Turbo mono display card, serial plus parallel ports, 99 key professional keyboard.

CPU: **80286**
 Op. Sys.: **PC/MS-DOS**
 Memory: **1000 - 16000k**
 D'tte: **1.2Mb**
 Hard Disk: **To 160Mb**
 Monitor: **Optional Deskmate Mono Monitor**
 No. Function Keys: **10**
 Price: **\$4310.00**
 Supplier: **Uni-X Pty Limited**

Deskmate 88 "My Personal Computer"

Turbo 4.77/8MHz, 2 x 360k floppy disk drives (1.2Mb optional), Sigma BIOS, serial and parallel port, Hercules compatible turbo mono display card, AT style case, 99 key professional keyboard.

10MHz processor optional.

CPU: **8088**
 Op. Sys.: **PC/MS-DOS**
 Memory: **256 - 640k**
 D'tte: **2 x 360k/1.2Mb**
 Hard Disk: **To 160Mb**
 Monitor: **Optional Deskmate Mono Monitor**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **Entry level \$1502.00 including tax**
 Supplier: **Uni-X Pty Limited**

Dicker Data AT

An IBM AT compatible machine with clocks speeds switchable to 13MHz. It is configurable with one or two floppy disk drives and a 20/30/40/80Mb hard disk.

CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **1024k**
 D'tte: **2 x 1.2Mb**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **Monochrome**
 No. Function Keys: **12**
 Ports: **Parallel and RS232**
 Price: **\$5765.00**
 Supplier: **Dicker Data**

Dicker Data XT

An IBM XT compatible with enhanced AT style keyboard. It can be configured with 1 or 2 diskette drives and a 10 or 20Mb hard disk. Clocks speeds are switchable between 4.77MHz, 6.77MHz and 8MHz.

CPU: **8088**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640k**
 D'tte: **1 x 360k**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **Monochrome**
 No. Function Keys: **12**
 Ports: **Parallel and RS232**
 Price: **\$3827.00**
 Supplier: **Dicker Data**

Discware AT-286

6/8/10MHz switchable CPU, 0 wait state, 1Mb RAM on mother board, VLSI chips used for reliability, low power consumption, 12 month warranty.

CPU: **80286**
 Op. Sys.: **PC/MS-DOS**
 Memory: **1000 - 15000k**
 D'tte: **1.2 Mb**
 Hard Disk: **20/40/60 Mb**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$2995.00**
 Supplier: **Discware Computers & Software**

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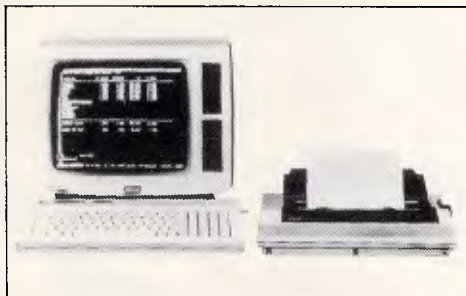
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- * Good Support and Service
- * National Service Centres
- * Wide range of application software for software specialists

The Company

Dicker Data were pioneers in the microcomputer business. We have been selling, supporting and servicing computer systems for over 8 years. Our customers include the Department of Defence, McDonalds Restaurants, CSIRO, Universities, Hospitals, CBFC Limited, Engineers, Professionals and many varied businesses, etc.



The Compatible Computers

The Compatible computers are sold through "Vertical Market" Dealers — Dealers who specialise in software. This means there's a good chance they can supply a customised software package to suit your requirements. The Compatible XT is available with floppies or 10 & 20 Megabyte hard disks, starting from \$1,720. The AT can run at 8,10 or 13 MHz and is available with 20, 30, 40 and 80 Megabyte hard disks, starting at \$3,570. Both systems can be configured with a Monochrome "Hercules" compatible display, Colour Graphic or Enhanced Graphic Adapters.



Data Lazer - Lazer Printing

Dicker Data have just introduced the "Data Lazer". The Data Lazer can print at 12 pages per minute. The Data Lazer allows three computers to send data to the printer simultaneously. The 250 sheet input and output cassettes meet the needs of most users. Accessories expand the range of solution seven further. The Data Lazer sells for \$6950.

Customer Service Program

The warranty is 12 months. All service is done on a "Swap Module" basis. This means there is no waiting for your faulty computer part to be repaired. We simply swap the module for a new one either at your office or at one of our Service Centres throughout Australia.

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We know what your requirements are and we make sure that we can support our products. Customer Support staff are available to provide answers to your questions about the Compatible product range. We only sell products we can support.

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The "Compatible" range of Personal Computers can run industry standard hardware and software, at a minimum price. Your computer is only as good as your software, so if the same package will run on a system that cost 50% less why pay more?



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Discware AT-286

An IBM-AT compatible computer featuring 8MHz 80286 CPU, Phoenix ROM, VLSI motherboard, space for 5 half height disk drives with full 12 month warranty.

CPU: 80286

Op. Sys.: PC/MS-DOS, Concurrent, Xenix

Memory: 1000 - 15000k

D'tte: 1.2-Mb

Hard Disk: 20/30/40Mb

Display Format: 80 x 25

No. Function Keys: 12

S'ware incl.: PC/MS-DOS 3.2 (+\$150)

Ports: Parallel and RS232

Price: \$2995.00

Supplier: Discware Computers & Software

EMTEK 160T D

8MHz clock speed, keyboard switchable to 4.77MHz, 8087-2 coprocessor socket, Phoenix Technologies BIOS, onboard real-time clock with lithium battery backup, onboard floppy disk controller and a 135W power supply.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 2 x 360k

Hard Disk: 20Mb (optional)

Display Format: 80 x 40 MDA/Hercules

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$2052.00 including sales tax.

Supplier: Emona Computers Pty Ltd

EMTEK AT MPC 2130

10MHZ clock speed, keyboard switchable to 6MHz, 80287-10 coprocessor socket, Phoenix Technologies BIOS, onboard real-time clock with lithium battery backup, onboard floppy disk controller and a 192W power supply. Included display card is EGA & MDA compatible, and emulates CGA & Hercules cards.

CPU: 80286-10

Op. Sys.: PC/MS-DOS 3.20

D'tte: 1 x 360k, 1 x 1.2Mb

Hard Disk: 30Mb

Display Format: 80 x 40, EGA, MDA, CGA,

No. Function Keys: 10

S'ware incl.: GW BASIC 3.2

Ports: Parallel and RS232

Price: \$5569.00 including sales tax

Supplier: Emona Computers Pty Ltd

Earth ECS 286

The Earth PC is an AT compatible machine capable of accessing 32Mb of hard disk without partitioning.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 1 x 1.2Mb

Hard Disk: 28Mb

Display Format: EGA

Monitor: Colour

Ports: Parallel and RS232

Price: \$5322.00

Supplier: Earth Computer System

Epson PC

The Epson PC is a high performance 16-bit desktop computer which features streamlined design and modularity for expansion. A full line of components and peripherals makes the Epson PC extremely upgradeable. Standard features include: 3 full size expansion slots; an 8087 coprocessor socket; speaker; front panel A/C power reset and option switches.

CPU: 80C88

Op. Sys.: EPSON MS-DOS 2.11

Memory: 512 - 640k

D'tte: 360k

Hard Disk: 20Mb

Monitor: Optional

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$2200 (PC/2 FD), \$3200 ((PC/HD) ex tax

Supplier: Epson Australia Pty Ltd

Epson PC AX

The Epson PC AX is fully IBM PC/AT compatible. Standard are 640k of RAM, expandable to 15.5Mb with cards. 1.2Mb floppy disk drive, with room for 4 additional half-height mass storage devices.

CPU: 80286

Op. Sys.: EPSON MS-DOS 3.2

Memory: 640k

D'tte: 1.2Mb

Hard Disk: 40Mb

Display Format: 80 x 25

Monitor: Optional-Taxan Supervision III or Monochrome

No. Function Keys: 12

Ports: Parallel and RS232

Price: \$7000.00 ex tax

Supplier: Epson Australia Pty Ltd

Epson PC+

Like the original Epson PC, the PC+ is an IBM PC compatible, from the hardware design to the software it runs, and even the peripherals you add to it. With a wide choice of floppy and hard disk drive configurations to choose from, the makers claim you get all the power of an IBM PC/XT.

CPU: NEC V30

Op. Sys.: PC/MS-DOS 3.1

D'tte: 360k

Hard Disk: 20Mb

Monitor: Optional-Taxan Supervision III or 12" monochrome

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$2950 FDD, \$4200 HDD ex tax

Supplier: Epson Australia Pty Ltd

Ericsson PC

This is an IBM PC compatible with a CGA graphics adaptor and the full number of expansion slots.

CPU: 8088

Op. Sys.: PC/MS-DOS 2.11

Memory: 640k

D'tte: 2 x 360k

Hard Disk: 10Mb

Display Format: 80 x 25

Monitor: Monochrome

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: RS232

Price: \$3700.00

Supplier: Ericsson

Ericsson Portable

This is an IBM portable compatible featuring a built in printer, display and modem. It has the full PC keyboard layout and comes with GW-BASIC.

CPU: 8088

Op. Sys.: PC/MS-DOS 2.11

Memory: 256 - 512k

D'tte: 1 x 360k

Monitor: Monochrome

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: Parallel and RS232

Price: \$4065.00

Supplier: Ericsson

Express PC/AT

Supported by 3M Australia Pty Ltd; 6 - 10MHz switchable; baby AT motherboard; baby AT slide in case; optional enhanced keyboard (IBM RT look-alike keyboard); turbo selectable switch and hardware reset switch available on the front panel. Turbo LED indicating CPU speed. RAM expandable to 4Mb with cards.

CPU: 80286-10

Op. Sys.: PC/MS-DOS

Memory: 1000k

D'tte: 360k to 1.2Mb

Hard Disk: 10 - 120Mb

Display Format: 80 x 25

Monitor: Thomson or Taxan

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$4500.00 including monitor and

Logitech mouse

Supplier: Efficient Computer Services

Pty Ltd

Express PC/XT

Supported by 3M Australia Pty Ltd. Optional AT lookalike case is available. Optional enhanced keyboard (IBM RT lookalike keyboard), 4.77 - 8MHz software/hardware switchable speed. Optional NEC V20 CPU to enhance system performance index to 3.0 according to Norton utility. RAM expandable to 4Mb with cards.

CPU: **8088-2**

Op. Sys.: **PC/MS-DOS**

Memory: **640 - 1000k**

D'tte: **360k to 1.2Mb**

Hard Disk: **10 - 120Mb**

Display Format: **80 x 25**

Monitor: **Thomson or Taxan**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **\$1580.00**

Supplier: **Efficient Computer Services Pty Ltd**

Ferranti PC-2860-AT

6 and 8MHz operation - keyboard selectable or link selectable for default. Lithium based battery backed real time clock and CMOS setup RAM. Full BIOS diagnostics on boot up. Assembled in Australia - 18% Australian content. Power supply 180W continuous and 220W peak. 84 keys on keyboard. Hercules monochrome graphics adaptor. Access hatch to expansion slots i.e., easy access. 100% IBM compatible. Provision for 80287 standard.

CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.1, CP/M, Unix, Xenix, Pick**

Memory: **640 - 16000k**

D'tte: **1.2Mb/360k**

Hard Disk: **Standard 20.3Mb**

Display Format: **40 x 25 or 80 x 25 (IBM)**

Monitor: **Thompson Monochrome TTL**

No. Function Keys: **10**

S'ware incl.: **GW BASIC, F BASIC, Perfect Suite**

Ports: **Parallel and RS232**

Price: **\$4647.23 including sales tax and monochrome monitor**

Supplier: **Ferranti Computer Systems Australia Pty Ltd**

Fox 32-AT

The Fox 32-AT offers a high degree of compatibility with the IBM AT. Memory is expandable to 16 Mb using 4 Mb boards. The keyboard is switchable between AT and XT modes. Hard disk is optional and comes in 20 and 40 Mb versions.

CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **512 - 4096k**

D'tte: **1 x 1.2Mb**

Hard Disk: **40Mb**

No. Function Keys: **10**

Price: **\$2800.00**

Supplier: **PCs PLUS**

Fox 32-AT 'Baby'

This AT compatible features a small footprint due to the use of VLSI chips. It runs at speeds from 6 to 10 MHz and is switchable from software. The keyboard is available in different languages. A range of hard disk and diskette options are available.

CPU: **80286 6/8/10MHz**

Op. Sys.: **MS-DOS 3.2**

Memory: **512 - 1024k**

D'tte: **1 x 1.2Mb or 1 x 360k**

No. Function Keys: **10**

Price: **\$2600.00**

Supplier: **PCs PLUS**

Fox Turbo-XT

The Fox Turbo-XT is a fast XT compatible using the V20-8 processor which is 8088 compatible but gives improved performance. It has an AT style case with keyboard lock.

CPU: **V20-8**

Op. Sys.: **PC/MS-DOS**

Memory: **256 - 640k**

D'tte: **2 x 360k 5 1/4"**

Hard Disk: **20Mb**

No. Function Keys: **10**

Price: **\$1200.00**

Supplier: **PCs PLUS**

Fujitsu Executive

The Fujitsu Executive is an XT style machine that comes with an AT style case and keyboard. It supports up to four internal floppy drives and all graphics adaptors. RAM expandable to 4Mb with cards.

CPU: **NEC V20**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **640 - 1000k**

D'tte: **2 x 360k**

Display Format: **80 x 25**

Monitor: **Monochrome**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **\$2590.00**

Supplier: **Computer Action**

Fujitsu Executive II

An IBM AT compatible with an external keyboard lock and various styles of case, providing speed switch and reset buttons at front or rear and capability for up to 5 disk drives to be mounted internally. No wait state jumper enables the system to run at 12MHz. Memory expandable to 10Mb with cards.

CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **1000k**

D'tte: **1.2Mb**

Hard Disk: **20Mb**

Price: **P O A**

Supplier: **Computer Action**

HP Portable Plus

CPU: **16-bit 80C86**

Op. Sys.: **PC/MS-DOS 2.11**

Memory: **512k**

D'tte: **710k**

Display Format: **80 x 25**

Monitor: **Inbuilt monochrome LCD**

No. Function Keys: **8**

S'ware incl.: **DOS, PAM**

Ports: **RS232**

Price: **\$5993.00 ex tax, \$6796.00 including tax**

Supplier: **Hewlett Packard Australia Limited**

HP Vectra

CPU: **80286 16-bit**

Op. Sys.: **PC/MS-DOS**

Memory: **640k**

D'tte: **1.2Mb**

Hard Disk: **40Mb**

Display Format: **80 x 25**

Monitor: **MDA, CGA, EGA options**

No. Function Keys: **18**

S'ware incl.: **Advance Write/Link, Executive Card, Memo Maker and more.**

Ports: **Parallel and RS232**

Price: **P O A**

Supplier: **Hewlett Packard Australia Limited**

Honeywell AP

8MHz IBM AT compatible PC with 5 storage device slots. Mass storage controller supports maximum of two hard disks and two diskette units. 60Mb streamer tape is available as an option. Also available with a 30Mb hard disk (it uses an expansion port) for \$9520.

CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.1**

Memory: **256 - 640k**

D'tte: **1.2Mb**

Display Format: **25 x 80**

Monitor: **Optional**

No. Function Keys: **30**

S'ware incl.: **GW BASIC**

Price: **\$5446.00**

Supplier: **Honeywell Information Systems**

Honeywell EP

4.77/8MHz switchable IBM PC, PC/XT compatible PC with Hercules emulation on in-built monochrome controller port. Also available with two diskette drives, \$2850,

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or 1 diskette and 10Mb hard disk, \$4281.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 2.11

Memory: 256 - 640k

D'tte: 360k

Display Format: 25 x 80

Monitor: Optional

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: Parallel

Price: \$2528.00

Supplier: Honeywell Information Systems

Honeywell XP

4.77/8MHz switchable IBM PC/XT compatible with provision for four storage devices including 10Mb streamer tape. Diskette controller on motherboard supports two diskettes plus streamer tape or three diskette units. Keyboard has 95 keys with separate cursor control bays. Also available with hard disk controller capable of supporting two devices for \$4725.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 2.11

Memory: 256 - 640k

D'tte: 2 x 360k

Display Format: 25 x 80

Monitor: Optional

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: Parallel and RS232

Price: \$4061.00

Supplier: Honeywell Information Systems

IBM Personal Computer

The IBM PC comes with 256k of RAM, 40k of ROM containing Basic, and five expansion slots (one used by the floppy drive). The system is further expandable by adding feature cards. An expansion unit containing 8 extra slots can be attached. There is room for a second diskette drive in the system unit and a variety of monitors may be connected. The system is shipped with a guide to operations and a PC Basic manual.

CPU: 8088

Op. Sys.: PC/MS-DOS

Memory: 256 - 640k

D'tte: 1 x 360k

Display Format: 40/80 x 25

Monitor: Optional

No. Function Keys: 10

S'ware incl.: Basic in ROM

Price: P O A

Supplier: IBM

IBM Personal Computer AT

The IBM PC-AT is available in a base model or an advanced model that includes a 20Mb hard disk drive and a serial/parallel adaptor. Both models have a battery backed up clock on board. Up to three disk drives may be installed giving a maximum of 2 x 20Mb hard disk and 1 x 1.2Mb floppy diskette internal storage. Each system can be further expanded through options that are customer installable. Add on boards can increase memory to 3Mb.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.0

Memory: 512 - 640k

D'tte: 1 x 1.2Mb

Display Format: 80 x 25

Price: P O A

Supplier: IBM

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IBM Personal Computer Convertible

The IBM PC Convertible system comes with 64k of ROM, an AC adaptor and battery pack. The liquid crystal display is easily detachable so the system unit can be plugged into an IBM PC Convertible monochrome display. The 72 pin extendable bus interface allows the convertible printer, serial/parallel adaptor and CRT display adaptor to be attached. It comes with two extensions to DOS: System Applications includes notewriter, phonelist and calculator; Tools is a menu driven set of DOS tools.

CPU: CMOS 80C88

Op. Sys.: PC/MS-DOS 3.2

Memory: 512k

D'tte: 2 x 720k

Display Format: 25 x 80

Monitor: Detachable LCD

No. Function Keys: 10

S'ware incl.: Applications selector, Tools & System Apps.

Price: P O A

Supplier: IBM

IBM Personal Computer XT

The IBM Personal Computer XT comes with 512k (expandable to 640k) of RAM, one 5.25" floppy drive and eight expansion slots. Models containing two floppy diskette drives or a hard disk drive and asynchronous communications adaptor are available. Three more models are available with 3.5" diskette drives or a 20Mb hard

disk and the enhanced keyboard. The system comes with a guide to operations and a Basic manual.

CPU: 8088

Op. Sys.: PC/MS-DOS 2.1

Memory: 512 - 640k

D'tte: 1 x 360k

No. Function Keys: 10

Price: P O A

Supplier: IBM

IBM Personal System/2 Model 30

The entry level model of IBMs new Personal System/2 range of computers. Designed as a multi-tasking machine the Model 30 can process single applications up to 2.5 times faster than the IBM PC/XT. The enhanced graphics integrated in the operating system include improved text, expanded colours (up to 256 out of a palette of 256000) and sharper business graphics. A model with 20Mb of hard disk is available for \$4720.00.

CPU: 8086

Op. Sys.: Personal System/2 MS DOS 3.3

Memory: 640k

D'tte: 2 x 720k

Display Format: Multicolour graphics display

Price: \$3500.00

Supplier: IBM

IBM Personal System/2 Model 50

The Model 50 is an 80286 based model in IBMs new range of Personal System/2 machines. It features the 32-bit micro chan-

nel architecture allowing to process information up to twice as fast as an IBM PC-AT. The Video Graphics Array supports 640 x 480 pixels in 16 colours for graphics 720 x 400 pixels in 16 colours for text. It also supports the new 320 x 200 pixels in 256 colours and 1024 x 768 pixel advanced graphics.

CPU: 80286

Op. Sys.: Personal System/2 PC DOS 3.3

Memory: 1000 - 7000k

D'tte: 1 x 1.44Mb 3.5"

Display Format: Video graphics array

Price: \$7490.00

Supplier: IBM

IBM Personal System/2 Model 60

A floor standing 80286 model in the Personal System/2 range. It comes standard with a 44Mb hard disk, a model with a 70Mb hard disk instead is available for \$13140.00. 44, 70 or 115Mb hard disk drives may be added to either of these models. It features all the advantages of the Personal System/2 operating system and 7 general purpose expansion slots.

CPU: 80286

Op. Sys.: Personal System/2 PC DOS 3.3

Memory: 1000 - 15000k

D'tte: 1 x 1.44Mb 3.5"

Hard Disk: 44Mb or 70Mb

Display Format: Video graphics array

Price: \$11090.00

Supplier: IBM

IBM Personal System/2 Model 80

This is a floor standing IBM Personal System/2 machine that uses Intel's 32-bit 80386 processor. It operates up to 3.5 times faster than the IBM PC-AT. It is ideal for processor hungry applications such as mathematical, scientific, engineering and graphic applications and image processing. It is also useful as a server in network. Versions with 44/70/115Mb hard disks as standard are available. The 115Mb version runs at 20MHz. All versions accept a second hard disk.

CPU: 80386

Op. Sys.: Personal System/2 PC DOS 3.3

Memory: 1000 - 16000k

D'tte: 1 x 1.44Mb 3.5"

Hard Disk: 40/70/115Mb

Display Format: Video graphics array

Price: \$22820.00

Supplier: IBM



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IBM Portable Personal Computer

The IBM Portable Personal Computer is a transportable PC with a built-in monitor, slimline diskette drive adaptor and colour graphics adaptor. The system board is the same as the XT. There are seven expansion slots on the system board and the graphics and disk adaptor take up one each. One of the remaining slots is full length, the other four are short. An expansion unit giving 8 extra slots can be attached. The computer comes with a carrybag and weighs 13.6kg.

CPU: 8088

Op. Sys.: PC/MS-DOS 2.1

Memory: 256 - 512k

D'tte: 1 x 360k

Display Format: 80 x 25

Monitor: Amber composite 9 inch

No. Function Keys: 10

Ports: Parallel and RS232

Price: P O A

Supplier: IBM

IPX 286 AT

Features front reset button, speed indicator, space for five units (i.e., 2FD, 2HD and 1 tape backup unit) a video card that supports monochrome, composite and colour modes. Backed up by a full 24 months warranty, training and technical support staff.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2, Xenix, Unix

Memory: 1024 - 8000k

D'tte: 1.2Mb/360k

Hard Disk: Variable

20/30/40/50/70/120Mb

Display Format: 80 x 25

Monitor: Monochrome CGA and EGA monitors available.

No. Function Keys: 20

Ports: Parallel and RS232

Price: \$3378.00

Supplier: Tristar Business Systems

IPX 8088 XT Turbo

The IPX 8088 XT Turbo has standard features such as front reset button, PC keylock, 640k RAM, AT Style keyboard, switchable clock speeds and a magic video card that supports monochrome, composite and colour graphics. The computer is backed up by 24 months warranty, training and technical support staff.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 360k

Hard Disk: 10/20/30/40/60Mb

Display Format: 80 x 25

Monitor: A range of monitors available

(not incl. in price)

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$1674.00

Supplier: Tristar Business Systems

ITT XTRA - 95121

The entry level ITT XTRA personal computer provides full IBM PC compatibility and is designed as a productivity tool for a wide range of applications. Expandable to 640k memory with multifunction cards. Accommodates all standard IBM compatible boards. Either ITT monitors and adaptors or IBM compatible monitors and adaptors can be used. Motherboard has a socket for 8087 co-processor. Standard 115 watt power supply. With 10Mb of hard disk the 95130 retails for \$4814, 20Mb upgrades this model to the 95131 which costs \$5102.

CPU: 8088

Op. Sys.: ITT DOS 3.1

Memory: 256k

D'tte: 2 x 360k

Hard Disk: No

Display Format: 25 x 80

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3023.00 including tax

Supplier: Standard Telephones & Cables - Business Systems

ITT XTRA 286 ATW - 95161

A high performance IBM AT compatible business computer works comfortably in single or multi user situations. It offers built in enhanced graphics and extensive system flexibility. It features 640k of RAM, a 1.2Mb floppy disk, and 30Mb hard disk, multi-mode enhanced graphics capabilities and 8 expansion slots. It runs at 10MHz and uses proprietary disk-caching software to deliver a 30% edge over the IBM PC AT.

CPU: 80286

Op. Sys.: ITT DOS 3.1

Memory: 640 - 1024k

D'tte: 1.2Mb

Hard Disk: 30Mb

Display Format: 25 x 80

Monitor: EGA adaptor card included.

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$10272.00 including tax

Supplier: Standard Telephones & Cables - Business Systems

ITT XTRA XP - 95181

For the professional who uses applications demanding good response. Featuring a 80286 processor and 6MHz clock, it is

fully IBM compatible, but faster. Sophisticated proprietary FXP hard disk caching. Expandable to 1.64Mb RAM. A speed switch (accessed from keyboard) to reduce system speed for speed sensitive software and five PC/XT-compatible expansion slots are also provided. The 20Mb version (95182) retails for \$6466.00.

CPU: 80286

Op. Sys.: ITT DOS 3.1

Memory: 512 - 640k

D'tte: 360k

Hard Disk: 10Mb

Display Format: 25 x 80

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$6026.00 including tax

Supplier: Standard Telephones & Cables - Business Systems

Kaypro 162E, 16E

Made in the USA, the Kaypro 162E offers portability and IBM compatibility, wrapped up in a rugged metal case. Bundled software consists of WordStar, CorrectStar, Mite, MS-DOS 3.2, MailMerge, StarIndex, GW BASIC, PolyWindows. The 16E has 1-20Mb of hard disk and sells for \$3995.

CPU: 8088

Op. Sys.: PC/MS-DOS, CP/M 86

Memory: 768k

D'tte: 2 x 360k

Hard Disk: Optional

Display Format: 80 x 25

Monitor: 9" inbuilt, colour graphics, high resolution text

No. Function Keys: 10

S'ware incl.: WordStar, CorrectStar, Mite, MS-DOS 3.2, MailMerge, etc.

Ports: Parallel and RS232

Price: \$2695 including tax

Supplier: Kaypro Computers (Australia) Pty Ltd

Kaypro 2000

Made in the USA, the Kaypro 2000 is a true portable. It can fit into a briefcase and unfolds into a full function IBM compatible. The Kaypro 2000 can operate either from its own internal battery system (up to 7 hours) or from the mains. By utilising the optional "base station" the 2000 can be upgraded to a hard disk or patched into a network.

CPU: 8088, 8087 optional

Op. Sys.: PC/MS-DOS

Memory: 768k

D'tte: 1 x 720k

Hard Disk: Optional

Display Format: 80 x 25

Monitor: LCD display

No. Function Keys: 10

S'ware incl.: Fully bundled

Ports: RS232

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Kaypro 286i (Model C)

Made in the USA, the Kaypro 286i was the first IBM AT compatible released on the world market. Model C comes with 1-30Mb of hard disk and bundled software for \$5595. Software for the Model C includes WordStar, CorrectStar, GW-BASIC, PolyWindows, MailMerge, DOS 3.2.

CPU: **80286**

Op. Sys.: **PC/MS-DOS, Unix, Xenix**

Memory: **640 - 15000k**

D'tte: **1 x 1.2Mb**

Hard Disk: **1 x 30Mb**

Display Format: **80 x 25**

Monitor: **Optional**

No. Function Keys: **10**

S'ware incl.: **WordStar, CorrectStar, GW-BASIC, PolyWindows, MailMerge etc**

Ports: **Parallel and RS232**

Price: **\$5595.00 tax included**

Supplier: **Kaypro Computers (Australia) Pty Ltd**

Kaypro 386 (Model A)

Made in the USA, the Kaypro 386 (Model

A) is an entry level unit. The Model A is ready to be customized into many configurations. Running the Intel 80386 at 16MHz, the 386 can be keyboard selected to 6MHz for IBM AT/XT compatibility. Model E provides a 140Mb hard disk for \$12,195. Model N is a network file server with up to 660Mb on disk and 16Mb of RAM.

CPU: **80386**

Op. Sys.: **PC/MS-DOS, Unix, Xenix**

Memory: **512 - 1600k**

D'tte: **1 x 1.2Mb**

Hard Disk: **Optional**

Display Format: **80 x 25**

Monitor: **Optional**

No. Function Keys: **12**

S'ware incl.: **MS-DOS 3.2, GW BASIC**

Ports: **Parallel and RS232**

Price: **\$9650.00 including tax**

Supplier: **Kaypro Computers (Australia) Pty Ltd**

Kaypro PC, PC20

Made in the USA, the Kaypro PC's open architecture enables easy access to all major components. The Kaypro PC can be upgraded to an AT compatible by removing the processor board and replacing it with Kaypro's own 80286 upgrade board.

The PC and the PC20 come bundled with software. The PC20 has a 20Mb hard disk and sells for \$3295. The Kaypro PC comes standard with a CGA MDA Hercules compatible graphics card.

CPU: **8088-2**

Op. Sys.: **PC/MS-DOS, CP/M 86**

Memory: **768k**

D'tte: **1 x 360k**

Hard Disk: **Optional**

Display Format: **80 x 25**

Monitor: **Optional**

No. Function Keys: **10**

S'ware incl.: **WordStar, PolyWindows, StarIndex, Mite, MailMerge, etc.**

Ports: **Parallel and RS232**

Price: **\$2495.00 tax included**

Supplier: **Kaypro Computers (Australia) Pty Ltd**

Lancore Core 75

CPU: **80186**

Memory: **512 - 640k**

D'tte: **1 x 360**

Hard Disk: **75Mb**

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Ports: **Parallel and RS232**

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CPU: **8088**

Op. Sys.: **PC/MS-DOS 3.1**

Memory: **640k**

D'tte: **1 x 360k**

Hard Disk: **30Mb**

Display Format: **RGB**

Monitor: **Colour**

Ports: **Parallel and RS232**

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Monitor: **Supplied as option.**

S'ware incl.: **Supplied as option.**

Ports: **Parallel and RS232**

Price: **\$1350.00 +**

Supplier: **Intelec Data Systems**

Lingo 286 Compact

The Lingo 286 is sleek and compact. It measures only 355mm x 440mm x 145mm. Advanced AT chipset technology enables it to perform with less hardware components and enhance it's reliability. It can access up to 4Mb of RAM using expansion cards.

CPU: **80286**

Op. Sys.: **MS-DOS 3.2**

Memory: **512 - 1024k**

D'tte: **1.2Mb**

Hard Disk: **Optional to 60Mb**

Display Format: **Mono/Colour/EGA**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **P.O.A.**

Supplier: **Mandate Pty Limited**

Lingo PC 88XT Fast

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x440mm x 145mm.

CPU: **8088**

Op. Sys.: **MS-DOS 3.2**

Memory: **512 - 640k**

D'tte: **360k 5 1/4"**

Hard Disk: **Optional 20 - 60Mb**

Display Format: **Mono/Color/EGA**

No. Function Keys: **10**

Ports: **Parallel and RS232**

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CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **640k**

D'tte: **360k**

Hard Disk: **50Mb**

Ports: **Parallel and RS232**

Price: **P O A**

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fast version of the 8088 microprocessor.

CPU: NEC V20

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 360k

Hard Disk: 32Mb

Ports: Parallel and RS232

Price: \$1690.00

Supplier: CPM Data Systems Pty Ltd

Logi 286 AT

The Logi 286 AT features a 6 layer mother board with four layer interface board.

CPU: 80286 6/8 MHz

Op. Sys.: MS-DOS 3.2

Memory: 640 - 1000k

D'tte: 1.2Mb

Hard Disk: 30 Mb

Ports: Parallel and Serial

Price: P O A

Supplier: Oshima Computers Logi 88 XT

The Logi 88 XT features a 4 layer mother board with four layer interface a board. It uses the fast NEC V20 processor running at 5 and 8 MHz

CPU: NEC V20 5/8 MHz

Op. Sys.: MS-DOS 3.2

Memory: 640k

D'tte: 2 x 360kb

Hard Disk: 10 - 20Mb

Ports: Parallel and Serial

Price: P O A

Supplier: Oshima Computers

MBC 16 Plus

PC XT compatible with three slots available after RGB/mono/parallel/640k RAM fitted upgradeable to 640k on mother-board. A transportable model, the MBC775, with a full colour built in monitor is also available and retails for \$3529.00.

CPU: 8088-2

Op. Sys.: PC/MS-DOS

Memory: 256 - 640k

D'tte: 360k

Hard Disk: 20/30/60Mb

Display Format: Mono/RGB

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: Parallel and RS232

Price: \$1495.00

Supplier: Sanyo Office Machines Pty Limited

MBC880

Desktop IBM PC XT compatible with seven slots available after RGB/Parallel text card fitted.

CPU: 8088

Op. Sys.: PC/MS-DOS

Memory: 256 - 640k

D'tte: 360k

Hard Disk: 20/30/60Mb

Display Format: Mono/RGB STD

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: Parallel

Price: \$3175.00

Supplier: Sanyo Office Machines Pty Ltd

MBC99X Model

IBM AT compatible style with switchable speed up to 10MHz.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2, Xenix

Memory: 512 - 1000k

D'tte: 1.2Mb

Hard Disk: 30/60Mb

Display Format: Mono/CGA/EGA

S'ware incl.: GW BASIC

Price: \$2995.00

Supplier: Sanyo Office Machines Pty Ltd

MITAC 160T

A "Turbo" PC, software switchable from 4.77MHz to 8MHz. Licenced Phoenix BIOS for high compatibility. Used in small business, education or workstation applications. Will accept the full range of available PC add in cards.

CPU: 8088

Op. Sys.: PC/MS-DOS, Pick

Memory: 256 - 640k

D'tte: 360k

Hard Disk: 20Mb

Display Format: 80 x 25

No. Function Keys: 10

Price: \$1860.00

Supplier: Multitech Computers Pty Ltd

MITAC MPC-160S

A single board system available at a very low price. All major system functions including mono display adaptor, floppy controller, 2 x RS232C ports and one parallel port are on board. The Phoenix ROM BIOS ensures excellent software compatibility.

CPU: 8088

Op. Sys.: PC/MS-DOS, CP/M86, Pick

Memory: 512 - 640k

D'tte: 360k

Hard Disk: 20Mb

Display Format: 80 x 25

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$1500.00

Supplier: Multitech Computers Pty Ltd

Mac XT

The Mac XT is a Japanese made XT compatible using extremely high quality chips. It has an AT style keyboard with tactile

feedback. A lock and key case is provided for extra security and it is covered by a three month warranty.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 2 x 360k

Hard Disk: 31Mb

Display Format: 80 x 25

No. Function Keys: 10

S'ware incl.: GW BASIC

Ports: Parallel and RS232

Price: \$3320.00

Supplier: KCM Computers Pty Ltd

Macintosh II

High performance Macintosh using open architecture NuBus expansion slots, colour display capabilities, numeric coprocessor (68881) and optional PMMU (68851) for virtual memory management under Unix.

CPU: 68020

Op. Sys.: Finder, Unix, MS-DOS (from AST Research)

Memory: 1000 - 8000k

D'tte: 800k

Hard Disk: 20/40/80Mb internal

Display Format: Graphic

No. Function Keys: 15

Price: \$7693.00 (base system with 800k floppy)

Supplier: Apple Computer Australia Pty Limited

Macintosh Plus

Entry level Macintosh with single 800k floppy drive for student, small business, etc. Built in serial ports, SCSI port and extension disk drive port.

CPU: 68000

Op. Sys.: Finder

Memory: 1000 - 4000k

D'tte: 800k

Display Format: Graphic

Monitor: 9 inch internal

Ports: RS232

Price: \$4188.00

Supplier: Apple Computer Australia Pty Limited

Macintosh SE

The Macintosh SE retains the compact design of the Macintosh Plus with the addition of performance improvements and increased internal mass storage options. With the optional AST card the Macintosh SE can run MS-DOS.

CPU: 68000

Op. Sys.: Finder

Memory: 1000 - 4000k

D'tte: 800k

Hard Disk: 20Mb

Display Format: Graphic

Monitor: 9" internal

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| 3. Colour Graphic Monitor to suit CGA..... | Add \$450 |
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- 8088 CPU at 4.77 MHz, socket for 8087 on Japanese MB
- 640 KBytes RAM, 8 expansion slots
- Colour Graphic Display Adaptor (CGA) 640x200 resolution
- Multi I/O with parallel/serial/game ports
- Real time clock with battery backup. Socket for 2nd serial port
- Japanese National Matsushita DSDD Floppy Disk Drives
- PC—AT style, best quality keyboard with positive 'IBM' feel with LEDs for Num/Caps/Scroll locks
- 150 Watt power supply (or 165w, depending on stock)
- Hinged top metal case, with room for hard disc drive
- Operation manual — Full Six-Month Warranty

TPCAT—010 (AT Model, PC/AT compatible) \$2195 Tax Included

- 80286 CPU (6/10 MHz switchable), 8 expansion slots
- 1 MB RAM, one wait-static—Choice of CGA or IIGC Display Adaptor
- Parallel/Serial/Ports/Real time clock
- 200 Watt Power Supply — PC/AT Style KeyBoard
- 1.2 MB High Density Japanese Floppy Drive (read/write 360KB format)
- Optional USA Western Digital Hard Disc Controller at \$300 extra
- Operation Manual — Full Six-Month Warranty

TPCAT—210 (Enhanced AT Model with 20MB Hard Disc) \$2995 Tax Included

- All other features are the same as TPCXT—010 above
- 20 MB seagate ST-225 HD included with Western Digital Controller

Composite Monitor (suit CGA).....	\$180
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HGC Display Adaptor (720x348).....	\$139
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Thomson Composite Monitor (Top quality, suit CGA).....	\$200
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No. Function Keys: 15
 Price: \$5320.00 (dual floppy), \$6905.00 (floppy & hard disk)
 Supplier: Apple Computer Australia Pty Limited

Master Flonet Terminal

Expansion - composite video monochrome, RGB colour, network capacity, internal Tube Connector, cartridge sockets. Processor and RAM as for MS128.
 CPU: 65C12
 Op. Sys.: MOS v 5.0
 Memory: 64 - 128k
 Display Format: 40 x 25, 80 x 32
 No. Function Keys: 10
 S'ware incl.: BBC BASIC v 4.0
 Price: \$1113.00 ex tax
 Supplier: Barson Computers Australasia Pty Limited

Microbee 128K Premium Computer

The latest version of the Microbee (made in Aust). Features enhanced graphics capability (131,072 pixels), added cursor keys and inbuilt speaker volume control. Bundled software consists of a word processor, business graphics, simple database manager, communications packages.
 CPU: Z80
 Op. Sys.: CP/M 80 with Microbee user shells
 Memory: 128k
 D'tte: 2 x 800k
 Hard Disk: 10Mb
 Display Format: 80 x 24
 S'ware incl.: Bundled

Ports: Parallel and RS232
 Price: \$1199.00 (with 2 x 800k floppies)
 Supplier: Microbee Systems Limited, Australia

Micron AT

IBM AT compatible, 12 months warranty, optional 80287 coprocessor, 84 key keyboard, 200W power supply.
 CPU: 80286
 Op. Sys.: PC/MS-DOS
 Memory: 1024 - 4600k
 D'tte: 1.2Mb
 Hard Disk: 20Mb
 Display Format: Colour graphics adaptor
 No. Function Keys: 10
 Ports: Parallel and RS232
 Price: \$3300.00
 Supplier: Micron Computers Australia

Micron PC

IBM compatible, 1 x 360k drive, 84 key keyboard, 150W power supply, 12 month warranty.
 CPU: 8088
 Op. Sys.: PC/MS-DOS
 Memory: 256 - 640k
 D'tte: 360k
 Display Format: Colour graphics adaptor
 Monitor: Green, tilt/swivel base
 No. Function Keys: 10
 S'ware incl.: Utility disk
 Ports: Parallel and RS232
 Price: \$999.00
 Supplier: Micron Computers Australia

Micron XT Turbo

IBM compatible, dual 360k drives, 165W power supply, 84 key keyboard, 12 month

warranty.
 CPU: 8088-2, V20-8
 Op. Sys.: PC/MS-DOS
 Memory: 640 - 1024k
 D'tte: 360k
 Display Format: Colour graphics
 No. Function Keys: 10
 S'ware incl.: Utility disk (print spooler, timer, etc.)
 Ports: Parallel and RS232
 Price: \$1295.00
 Supplier: Micron Computers Australia

NCR 3390 - Integrated Workstation

The NCR 3390 is a fully AT compatible intelligent workstation. It is designed to meet the need for fast local processing and sophisticated communications in organisations using LANs or connecting PCs to departments central processors. The 10MHz 286 processor offers fast DOS application processing.
 CPU: 80286-10
 Op. Sys.: NCR DOS 3.2
 Memory: 512 - 2600k
 D'tte: 720k
 Hard Disk: 20Mb
 Display Format: 80 x 25
 No. Function Keys: 30
 S'ware incl.: NCR DOS 3.2, User interface, On-line help.
 Ports: Parallel and RS232
 Price: \$2627.00 excluding tax
 Supplier: NCR Australia Pty Limited

NCR PC6

NCR PC6 is an XT compatible PC with four drive positions, dual speed processor



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POWER, PRICE, FLEXIBILITY AND COMPATIBILITY IN A 16 BIT KIT. THE AMAZING 1616.

At last a kit computer that sports similar features, specifications and classical design architecture to current PC's.

The 1616 offers the latest microprocessor, loads of onboard memory, expansion slots for your favourite add-ons and more! As well as software with the power to pull all these features together and make the 1616 function as a useful, high performance personal computer priced to suit any budget.

THE CHALLENGE THAT IS WELL REWARDED.

Built up in easy stages, the 1616 offers a unique insight into the workings of 16 bit computers. Each stage can be tested by diagnostic functions, to ensure correct construction. In its complete form, the 1616 is comparable with today's commercial PC's, or, in partial form, it is perfect for research adaptations.

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Applix are conducting Construction Workshops for purchasers of the 1616. All areas of constructional techniques, componentry handling and final detailing will be covered in this special one day workshop at a very reasonable cost.

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For several years, we've been paying attention to create a large local market. But now, extending the market in service field is our main goal. Ensontech, depending on superior skill and high qualities, is willing to play different roles according to customers' demand, such as OEM factory, inspector of trading companies or purchasing agent in Taiwan. The other facts that helped to clinch the deals are our competitive prices, prompt delivery, and flexibility of stock.

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• 6/8 or 6/10 MHz • 640KB on board, expandable to 1MB • WDC/FDC control card
• EGA adaptor • 2S/1P card • 1x 1.2MB floppy drive • 84 keys keyboard •
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| 24100p | Portable AT 286 Baby System
• 6/8 or 6/10 MHz • 640KB on board, expandable to 1MB • FDD control card (for
XT/AT use) • MONO/G.P card • 2S/1P card • 1x 1.2MB + 1x 360KB floppy
drives • Portable case w/180W power supply • 84 keys keyboard • 9" Dual monitor |
| 161001 | Turbo PC/XT 8088-2 System
• 4.77/8 MHz • 640KB on board • EGA card • Multi I/O card (Clock, Serial
port, Printer port 2X FDD ports) • 2X 360KB floppy drives • 84 keys
keyboard • AT baby case (37cm × 36cm × 15cm) |
| 240001 | AT 286 Main Board (6/8 or 6/10 MHz switchable)
3MB Multi I/O Card |
| 240004 | 1.2MB Disk Card w/Cable (XT/AT Use) |
| 240006 | AT 286 Baby Board (6/8 or 6/10 MHz switchable) |
| 240007 | Four Serial Card |
| 240008 | • Enhanced asynchronous communications adaptor for IBM PC/AT |
| 240009 | AT 286 Main Board (6/8/10/12 MHz switchable) |
| 160000 | XT 8088 Main Board (0KB RAM, expandable to 640KB, 4.77 MHz) |
| 160001 | XT 8088-2 Turbo Board (0KB RAM, expandable to 640KB, 4.77 MHz) |
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80386 will be available in five months.
 5" 7" portable XT/AT (similar as 24100p) available now

PC/XT/AT add on card, legal BIOS & MS DOS are available

(4.77/8MHz) enhanced keyboard and serial/parallel ports. One of the models includes integrated 10Mb streaming tape backup facility.

CPU: 8088-2

Op. Sys.: NCR DOS 3.2

Memory: 512 - 640k

D'tte: 360k

Hard Disk: 20Mb

Display Format: 80 x 25

No. Function Keys: 10

S'ware incl.: NCR DOS 3.2, User interface, On-line help.

Ports: Parallel and RS232

Price: \$4382.00 excluding tax

Supplier: NCR Australia Pty Ltd

NCR PC8

NCR PC8 is an advanced technology personal computer which is operationally compatible with the IBM PC AT. The product is designed to provide maximum flexibility and configurability. NCR displays, mass storage devices and optional plug-in board can be used to configure two complete systems. With 30Mb of hard disk the PC8 costs \$7013.00.

CPU: 80286/8

Op. Sys.: NCR DOS 3.2, Xenix

Memory: 512 - 16000k

D'tte: 1.2Mb

Hard Disk: 30 - 64Mb

Display Format: 80 x 25

No. Function Keys: 30

S'ware incl.: NCR DOS 3.2, User interface, on-line help.

Ports: Parallel and RS232

Price: \$5526.00 excluding tax

Supplier: NCR Australia Pty Ltd

NEC APC-III Advanced Personal Computer

The NEC APC-III has a system unit, a keyboard and a video monitor. The NEC APC-III is available in several levels, each model being available with either a monochrome or colour monitor. Both monitors have 14" (diagonal) displays with a 640 x 400 resolution; one being white phosphor monochrome and the other an 8 colour RGB video monitor.

CPU: 8086-2

Op. Sys.: PC/MS-DOS

Memory: 384 - 640k

D'tte: 640k

Hard Disk: 20Mb

Display Format: 80 x 25

Monitor: Monochrome or Colour, depending on model

No. Function Keys: 12

Ports: Parallel and RS232

Price: \$4891 20Mb model retail (ex tax)

Supplier: NEC Information Systems Australia Pty Ltd

NEC APC-IV Advanced Personal Computer

The NEC APC-IV is based on the 80286 microprocessor and is capable of running at either 6 or 8MHz. The machine has five peripheral slots for up to two floppy disk drives, two fixed disks and tape backup unit. The APC-IV is available in three models: the APC4-EL which has a colour graphics adaptor with a screen resolution of 640 x 200 pixels, the APC4-AG utilises and NEC Advanced Graphics Adaptor capable of 640 x 350 pixel resolution and the high resolution APC4-PG which is capable of delivering 1120 x 750 pixel resolution.

CPU: 80286

Op. Sys.: PC/MS-DOS, Xenix

Memory: 640 - 10500k

D'tte: 1.2Mb

Hard Disk: 20Mb

Display Format: 80 x 25

Monitor: Advanced Colour Display (NEC Multisync)

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$8715.00 ex tax

Supplier: NEC Information Systems Australia Pty Ltd

NEC APC-IV Power-mate

This version of the NEC APC-IV has an EGA card as standard. It comes with 20Mb of hard disk and an enhanced AT style keyboard. Memory may be expanded to 8.6Mb using 2Mb expansion cards.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2

D'tte: 1 x 1.2Mb

Hard Disk: 20Mb

Display Format: EGA

No. Function Keys: 12

Ports: Parallel and RS232

Price: \$6077.00

Supplier: NEC Information Systems Australia Pty Ltd

NEC Multispeed

This portable machine weighs only 5.4kg and comes with five inbuilt applications packages. It has an FDC port so that IBM compatible computers can access information on the multispeed, using the multispeeds drives as their own external drives.

CPU: NEC V30

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 2 x 720k

Display Format: CGA

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3373.00

Supplier: NEC Information Systems Australia Pty Ltd

NEC PC8401BM

The PC8401BM is a 64k RAM, 96k ROM, Z80 compatible, CMOS based, portable computer that features inbuilt software with battery backed RAM. It operates with C-sized ni-cad batteries, or an AC adaptor. It also features a 300 baud modem. The PC8401BM has four built-in programs: WordStar-to-go; Telcom; Calc-to-go; Personal Filer, as well as the built-in CP/M operating system.

CPU: CMOS

Op. Sys.: CP/M

Memory: 32 - 128k

D'tte: 320k

Display Format: 80 x 16

Monitor: LCD

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$1050 ex tax

Supplier: NEC Information Systems Australia Pty Ltd

Olivetti M19

The low end model of the Olivetti PC range. The M19 is a cheaper alternative to the M24/M24SP. Monochrome and colour are available and an external box which gives the M19 one full size IBM expansion slot. The footprint of the M19 has been dramatically reduced. Power supply is located inside the monochrome monitor and an external power supply is required to run a colour screen. 8088 architecture running at 4.77MHz.

CPU: 8088

Op. Sys.: PC/MS-DOS

Memory: 128 - 768k

D'tte: 360k

Hard Disk: 20Mb only

Display Format: 640 x 200 resolution

Monitor: Yes

No. Function Keys: 10

Ports: Parallel and RS232

Price: P O A

Supplier: Olivetti Australia Pty Ltd

Olivetti M24

An 8086 microprocessor running at 8MHz. Fully IBM compatible both hardware and software. Operates at approximately 2.5 times faster than a standard IBM PC. Colour/colour graphics standard, real time clock, 8087 slot. Runs at 16-bit. Option of keyboards, standard IBM layout or Olivetti's own "native" layout. 3 monochrome monitors available (green, amber or white) and a 12" colour monitor requiring no extra expansion card. Expandable to 640k on the mother board. Mouse interface

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standard.

CPU: 8086

Op. Sys.: **PC/MS-DOS, Pick, Xenix**

Memory: **128 - 640k**

D'tte: **360k**

Hard Disk: **40Mb (10/20 also available)**

Display Format: **640 x 400 resolution**

Monitor: **Monochrome with 16 "shades of grey"**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **P O A**

Supplier: **Olivetti Australia Pty Ltd**

Olivetti M24 SP

Full 16-bit 8086 processor running at 10MHz yet still remaining fully IBM compatible both hardware and software. Same basic features as M24 with the same option of monochrome and colour monitors. Supplies speed and power for running in a local area network environment or a Xenix environment supporting 3-4 terminals.

CPU: 8086

Op. Sys.: **PC/MS-DOS, Pick, Xenix**

Memory: **640k**

D'tte: **360k**

Hard Disk: **20Mb (40Mb also available)**

Display Format: **640 x 400 resolution**

Monitor: **Monochrome with 16 "shades of grey"**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **P O A**

Supplier: **Olivetti Australia Pty Ltd**

Olivetti M28

The M28 based on the 80286 architecture again maintains full IBM XT/AT compatibility. The Olivetti M28 is suited for the Xenix environment and to act as a server in a large network. It can have up to 7Mb of main memory using expansion. Olivetti M28 is available in a large range of configurations and generally can be tailored to a user's need. The M28 was the logical step forward from the M24. It fully supports both MS-DOS and Xenix operating systems.

CPU: 80286

Op. Sys.: **PC/MS-DOS, Xenix**

Memory: **512 - 1000k**

D'tte: **360k or 1.2Mb**

Hard Disk: **20/40/70Mb**

Display Format: **640 x 400 resolution**

Monitor: **Yes**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **P O A**

Supplier: **Olivetti Australia Pty Ltd**

Opal Turbo PC/AT

This is a full Japanese AT system function-

ing in no wait state mode at 8MHz. Dealer and OEM enquiries welcome (the larger the quantity the larger the discount).

CPU: 80286

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **640k**

D'tte: **1.2Mb**

Hard Disk: **20Mb**

Monitor: **Nil**

No. Function Keys: **10**

S'ware incl.: **Nil**

Ports: **Parallel and RS232**

Price: **\$4620.00 including tax**

Supplier: **Ade Computers**

Osborne Graduate

Supplied with video card and printer port. One of the lowest cost fully compatible PCs available in Australia.

CPU: 8088-2

Op. Sys.: **PC/MS-DOS**

Memory: **256 - 1000k**

D'tte: **360k**

Hard Disk: **20Mb plus**

Display Format: **80 x 25**

No. Function Keys: **10**

Price: **\$1195.00**

Supplier: **Pacific Data Corporation**

Hales & Rogers Pty Ltd

Osborne Turbo AT

Processor runs at 8MHz with zero wait states. Machine is supplied with video card, printer port, serial port, battery backed clock and calendar. Keyboard and systems unit are both lockable. DOS is supplied with full documentation including programmers reference.

CPU: 80286-8

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **512 - 1000k**

D'tte: **1.2Mb**

Hard Disk: **20 - 200Mb**

Display Format: **80 x 25**

No. Function Keys: **10**

S'ware incl.: **DOS, GW BASIC, DOS**

Utilities

Price: **\$3400.00**

Supplier: **Pacific Data Corporation**

Hales & Rogers Pty Ltd

Osborne Turbo Executive/College

Processor runs at 8MHz (switchable) with zero wait states. Machine is supplied with video card, printer port, two serial ports, games port, battery backed clock and calendar. Keyboard and systems unit are both lockable. DOS is supplied with documentation including programmers reference.

CPU: 8088-2

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **256 - 1000k**

D'tte: **360k**

Hard Disk: **20 - 200Mb**

Display Format: **80 x 25**

No. Function Keys: **10**

S'ware incl.: **DOS, GW BASIC, DOS Utilities**

Price: **\$2200.00**

Supplier: **Pacific Data Corporation**

Hales & Rogers Pty Ltd

Oscar Mini AT

1Mb memory; 80286-8 8/10MHz; 1.2Mb floppy; optional Winchester (microscience); XT footprint; TTL; colour; EGA Display options; dual RS232; parallel printer ports, realtime clock and battery backup; 101 key keyboard; fully licensed MS-DOS/GW Basic 3.2; 200W power.

CPU: 80286-8

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **1000k**

D'tte: **1.2Mb**

Hard Disk: **Optional**

Display Format: **80 x 25**

No. Function Keys: **10**

Price: **P O A**

Supplier: **Digital Laboratory**

Oscar Turbo PC

640k memory; 8088-2 at 4.77/8MHz; dual 360k diskette drives; optional Microscience Winchester hard disk; TTL/Colour/EGA options; I/O; parallel; serial (2nd optional and games ports); realtime clock and battery backup; 84 or 101 key keyboards; fully licensed MS-DOS/GW BASIC 3.2; 150W power.

CPU: 8088-2

Op. Sys.: **Concurrent DOS, PC/MS-DOS**

Memory: **640k**

Price: **P O A**

Supplier: **Digital Laboratory**

PAN ASIA 6600

The entry level IBM compatible from the well established Taiwanese firm PAC Computers. Made and tested in Taiwan from high quality Japanese parts and tested again in Australia. An internal modem is optional and a games port is standard.

CPU: 8088

Op. Sys.: **PC/MS-DOS 3.1**

Memory: **640k**

D'tte: **1 x 360k**

Display Format: **CGA**

No. Function Keys: **10**

Price: **\$920.00**

Supplier: **PAC Computer**

PAN ASIA 6604

This XT compatible from PAC Computer is suitable for use as an intelligent terminal for a mainframe or mini computer. It has provision for an internal modem.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS 3.1**
Memory: **640k**
D'tte: **2 x 360k**
Hard Disk: **20Mb**
Display Format: **MGA**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$2400.00**
Supplier: **PAC Computer**

PAN ASIA 8000

This AT compatible from PAC Computer is suitable for CAD or other processor hungry applications. It contains high quality Japanese disk drives, power supplies and fans. It is tested in Taiwan and Australia.

CPU: **80286**
Op. Sys.: **PC/MS-DOS 3.1**
Memory: **640 - 1024k**
D'tte: **1 x 1.2Mb 5.25"**
Hard Disk: **40Mb**
Display Format: **MGA**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$3820.00**
Supplier: **PAC Computer**

PC 860-XT

Full 256k or 640k memory on 16-bit bus. Full 16-bit processor running at 4.77MHz. On board CGA adaptor is standard, running a black and white monitor. Full BIOS diagnostics on boot up. Provision for 8087 is standard. 84 keys on keyboard. Power supply 110W continuous and 150W maximum. 100% IBM compatible.

CPU: **8086**
Op. Sys.: **PC/MS-DOS, Pick, CP/M**
Memory: **256 - 640k**
D'tte: **1 x 360k**
Hard Disk: **10Mb**
Display Format: **40 x 25, 80 x 25 (IBM)**
Monitor: **Thomson composite sync (black and white)**
No. Function Keys: **10**
S'ware incl.: **GW BASIC, F BASIC, Perfect Suite (incl WP, Dbase, Spreadst)**
Ports: **Parallel and RS232**
Price: **256k RAM \$2143.00, 640k RAM \$2492.00 including tax & monitor**
Supplier: **Ferranti Computer Systems Australia Pty Ltd**

PC/AT Turbo

8/10MHz (no wait) processor. Coprocessor, 80287-10. Use of option-

al speed module achieves this rating. Excellent for CAD and spreadsheet. Optional casings. AT desktop case or Australian made floor tower type providing for several full/half height drives and tapes. Memory has switches to enable utilisation of memory in excess of 512k. Equipment carries USA "A" class rating (Made in USA).

CPU: **80286-10**
Op. Sys.: **PC/MS-DOS, Pick, Xenix, Unix**
Memory: **1000 - 16000k**
D'tte: **1.2Mb**
Hard Disk: **600Mb**
Display Format: **PGA, EGA, MGA**
No. Function Keys: **10**
Price: **P O A**
Supplier: **Western Computers Australasia Pty Ltd**

PC/XT Turbo

4.77/8MHz 8088-2 processor, socket for 8087-2 coprocessor. Standard with two floppies, clock, calendar.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS, Pick**
Memory: **640 - 1000k**
D'tte: **2 x 360k**
Hard Disk: **20 - 70Mb**
Display Format: **EGA, MGA, CGA**
Monitor: **Monochrome**
No. Function Keys: **10**
Price: **P O A**
Supplier: **Western Computers Australasia Pty Ltd**

PC1860

Full 16-bit bus for processor and memory DMA I/O. 4.77MHZ processor clock. Full BIOS diagnostics on boot up. Small footprint - only 482mm w x 415mm d x 140mm h. 84 key keyboard. 110 W continuous 150 W maximum power supply. 100% IBM compatible. Provision for 8087 is standard.

CPU: **8086**
Op. Sys.: **PC/MS-DOS 3.2, Pick, CP/M**
Memory: **640k**
D'tte: **1 x 360k**
Hard Disk: **20Mb**
Display Format: **40 x 25, 80 x 25 (IBM)**
Monitor: **Thompson monochrome TTL**
No. Function Keys: **10**
S'ware incl.: **GW BASIC, F BASIC, Perfect Suite (incl WP, Dbase, Spreadst)**
Ports: **Parallel and RS232**
Price: **\$3047.00 including sales tax and monitor**
Supplier: **Ferranti Computer Systems Australia Pty Ltd**

PC860-PC

Full 256k or 640k memory on 16-bit

bus. On board CGA adaptor standard, bus running at 4.77MHz. Full BIOS diagnostics on boot up. Provision for 8087 as standard. 84 keys on keyboard. Power Supply 110W continuous, 140W maximum. 100% IBM compatible.

CPU: **8086**
Op. Sys.: **PC/MS-DOS, CP/M, Pick**
Memory: **256 - 640k**
D'tte: **2 x 360k**
Display Format: **80 x 25 or 40 x 25 (IBM)**
Monitor: **Composite Black and White - Thompson**
No. Function Keys: **10**
S'ware incl.: **GW BASIC, F BASIC, Perfect Suite**
Ports: **Parallel and RS232**
Price: **256k RAM \$1889.90, 640k RAM \$2239.00 including sales tax & monitor**
Supplier: **Ferranti Computer Systems Australia Pty Ltd**

PG9200/PG9210 Universal UNIX

Integrated VMEbus systems for target and development environments. Single and multi-user systems are available running UNIX v 2 with a variety of disk capacities. The equipment is delivered in a table-top cabinet with 7-slot VMEbus rack, floppy and hard disk, and configured VMEbus modules.

CPU: **Motorola 68010**
Op. Sys.: **UNIX V 2**
Memory: **500k**
D'tte: **1Mb**
Hard Disk: **Up to 140Mb**
S'ware incl.: **PMON68K monitor/debugger, diagnostics**
Ports: **RS232**
Price: **PG9200 from \$14000.**
Supplier: **Philips Scientific & Industrial**

Panasonic Business Partner FX600M

This machine is designed for the business user. 20Mb of hard disk allows most storage hungry applications to be run.

CPU: **8086-2**
Op. Sys.: **PC/MS-DOS 3.1**
Memory: **640k**
D'tte: **1 x 360k**
Hard Disk: **20Mb**
Display Format: **CGA**
No. Function Keys: **10**
Ports: **Parallel**
Price: **\$5500.00**
Supplier: **National Panasonic**



MODEL: BTC 5339

THE BTC 5339 A SUPER ENHANCED KEYBOARD FOR THE IBM PC, XT/AT

FEATURES:

- Software Auto-sense plug compatible IBM PC, XT&AT
- 12 Function keys on top row for easier and more accurate operation
- Enlarged enter key
- Separate cursor keys
- Separate numeric pad
- Solid-state capacitance low-profile key switches
- Positive tactile feedback
- Sculptured profile
- Large-scale integration encoding
- N-key rollover
- Reliable electronic shiftlock with LED indicator
- Auto repeat

BTC 5060

IBM PC XT/AT
compatible keyboard, 84 keys
FCC ID: E5X5R5BTC-5060



BTC 5050

IBM PC/XT
compatible keyboard, 84 keys
FCC ID: E5X5R5BTC-5050



BTC 5151

IBM PC/XT
compatible keyboard, 100 keys
FCC ID: E5X5R5BTC-5151



BTC BEHAVIOR TECH COMPUTER CORP.
301, NANKING E. RD., SEC. 5,
TAIPEI, TAIWAN, R.O.C.
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TELEX: 13917 BEHAVIOR

Staff Turbo PC XT/AT — The Fastest Turbo of the Year!

MONTEREY INTERNATIONAL CORP., established since 1977, is a well-known manufacturer & exporter of computer & keyboard, as well as a reliable importer of a wide range of computer parts; components and peripherals. Over the past 3 years, we have concentrated in providing computer products under the brand name of "STAFF" to more than 40 countries all over the world, the feedback of our superior goodwill; advanced products and service is a rapid growth of annual turnover year after year. (Growth-up rate is 45%-118% since 1982).

STAFF-2PAT

COMPACT DESIGN, HIGH PERFORMANCE! ►

This fantastic designed "BABY AT" is a well-developed system with enhanced compact hardware which utilizes the 80286 CPU running at 6/8/12 MHz selectable speeds, fully IBM PC/AT compatible. The dimensions of the attractive cabinet is only 42.5(D) x 44(W) x 15.5(H) cm. This smart PC is an example of MONTEREY's commitment to excellent product improvement.

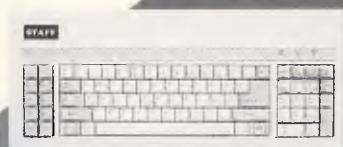
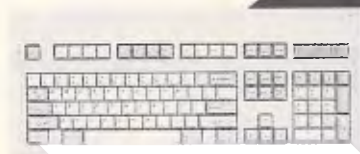
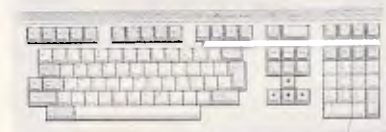


If you are a importer of computer products and are interested in finding a good supplier in Taiwan, MONTEREY is your right choice! From SKD; fully assembled or even with your own brand name, we are able to support you for a mutual successful business



◀ STAFF-2H TURBO XT

The STAFF-2H utilizes the advanced NEC V-20 or 8088-1 microprocessor to enhance the processing speed switchable from 4.77 MHz to 10 MHz, 90% faster than IBM PC/XT. The new designed cabinet provides a reset switch; a keyboard lock as PC/AT; 2 LED light for power on-off and Turbo mode indicators.



MONTEREY'S KEYBOARDS ►

A variety of intelligent keyboards are available in most of the European languages, featured with mechanical excellent tactile feeling keyswitch; DIN standard super slim low-profile design; double injection keytop; PC/AT/XT switchable compatible

STAFF-K101— 101 keys.

STAFF-K9AX— 105 keys.

STAFF-K8AX— 84 keys.



MONTEREY International Corp.

P.O. Box 55 — 850, Taipei, Taiwan, R.O.C. Office: 1-6 F No. 40, Deh Hwei Street, Taipei, Taiwan. Phone: 886-2-5917138. Cable: MONTEREY TAIPEI.
Telex: 25171 MONTEREY. Fax: 886-2-5931075.

Panasonic Executive Partner

This IBM compatible with inbuilt gas plasma display is designed to assist the executive in preparing reports and data. It is switchable between 4.77 and 7.16 clock speeds to allow faster processing of applications.

CPU: **8086-2**
Op. Sys.: **PC/MS-DOS 2.1**
Memory: **256 - 640k**
D'tte: **2 x 360k**
Display Format: **GGA**
Monitor: **Gas plasma**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$4295.00**
Supplier: **National Panasonic**

Panasonic Executive Partner FX800M

This AT compatible from National comes standard with 640k of memory, and is expandable to 15Mb with memory expansion cards. It can have two internal floppies and two internal 30Mb hard disks. A keyboard lock is standard.

CPU: **80286-8**
Op. Sys.: **PC/MS-DOS 3.1**
Memory: **640 - 1024k**
D'tte: **1 x 1.2Mb**
Hard Disk: **30Mb**
Display Format: **CGA**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$9995.00**
Supplier: **National Panasonic**

Photon PC-286

The Photon 286 is fully AT compatible due to the use of Phoenix BIOS.

CPU: **80286-8**
Op. Sys.: **PC/MS-DOS 3.2, Pick, Xenix**
Memory: **512 - 1000k**
D'tte: **360k/1.2Mb**
Hard Disk: **20Mb**
Display Format: **Mono, Colour, EGA**
Monitor: **Mono, anti-glare, swivel base**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$3250.00**
Supplier: **Photon Computers**

Photon PC-88A

Photon now uses legal ERSO BIOS almost exclusively, resulting in full IBM compatibility (except for BASIC A). A 20Mb hard disk version (PC-88X) is available for \$2145.00.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS 3.2, Pick, Xenix**

Memory: **256 - 640k**
D'tte: **360k and 1.2Mb**
Hard Disk: **Optional**
Display Format: **Mono/Colour/EGA**
Monitor: **Mono, Anti-glare, swivel base**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$1385.00**
Supplier: **Photon Computers**

Premier 286

The Premier 286 comes standard with 2 360k diskette drives, a colour graphics card, AT style keyboard and Liscenced Phoenix BIOS.

CPU: **80286 6/8MHz**
Op. Sys.: **MS-DOS**
Memory: **512 - 1024k**
D'tte: **2 x 360k**
Display Format: **CGA**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$1590.00 including tax**
Supplier: **Total Peripherals**

President 200E

The President 200E comes standard with IVDC monochrome display adaptor serial and parallel ports and two floppy drives. It can accept up to four drives internally allowing 60Mb of hard disk to be installed. It uses the PC style keyboard.

CPU: **8088**
Op. Sys.: **PC/MS-DOS 2.11**
Memory: **640k**
D'tte: **2 x 360k 5¹/₄"**
Hard Disk: **Up to 60Mb**
Display Format: **80 x 25**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$1460.00**
Supplier: **President Computers Pty Ltd**

President AT

The President AT comes standard with Hercules graphics adaptor, an AT enhanced keyboard, one parallel and two serial ports. Up to 5 drives can be installed internally and add on boards allow up to 400Mb to be accessed.

CPU: **80286**
Op. Sys.: **PC/MS-DOS 3.1**
Memory: **640 - 15000k**
D'tte: **2 x 1.2Mb**
Hard Disk: **Up to 400Mb**
Display Format: **80 x 25**
Ports: **Parallel and RS232**
Price: **\$3990.00**
Supplier: **President Computers Pty Ltd**

President Pacer

The 32-bit Pacer computer comes standard with Hercules display adaptor, two parallel

and one serial port. Up to 5 drives may be mounted internally allowing 400Mb of hard disk to be installed.

CPU: **80386**
Op. Sys.: **PC/MS-DOS 3.1/5.x**
D'tte: **2 x 1.2Mb**
Hard Disk: **Up to 400Mb**
Ports: **Parallel and RS232**
Price: **\$9450.00 ex tax**
Supplier: **President Computers Pty Ltd**

President Turbo IV

The Turbo IV comes standard with two serial, two parallel and an I/O port. It has a realtime clock with battery backup and an AT enhanced keyboard and an IVDC monochrome display adaptor. It can take up to 60Mb of hard disk internally.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS 2.11/3.1**
D'tte: **2 x 360k**
No. Function Keys: **12**
Ports: **Parallel and RS232**
Price: **\$1950.00**
Supplier: **President Computers Pty Ltd**

Profound PC/AT

Standard features include: dual speed (6MHz/10MHz), 512k of RAM, 1 x 1.2Mb floppy drive, display card, serial and parallel port, clock/calendar, and a floppy/hard disk controller. Our "small footprint" cases will be available from March - with improved performance features. Assembled in Australia with 6 months warranty.

CPU: **80286**
Op. Sys.: **PC/MS-DOS 3.2**
Memory: **512 - 1000k**
D'tte: **2 x 1.2Mb floppy**
Hard Disk: **20Mb - 140Mb**
Display Format: **Monochrome or Colour**
Monitor: **Optional**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **From \$4500.00**
Supplier: **Eastern Micro Electronics**

Profound PC/XT

This computer comes standard with 640k of RAM, one or two floppy disk drives, parallel port, serial port, clock, calendar, joystick port and display card. High Australian content, as the product is fully assembled in Australia (South Melbourne) and a 6 month warranty is offered.

CPU: **8088**
Op. Sys.: **PC/MS-DOS 3.2**
Memory: **640k**
D'tte: **2 x 360k**
Hard Disk: **20Mb - 140Mb**
Display Format: **Monochrome or Colour**
Monitor: **Optional**
No. Function Keys: **10**
Ports: **Parallel and RS232**

Price: **From \$1800.00**
Supplier: **Eastern Micro Electronics**

Profound PC/XT Turbo

Our Turbo model comes in an AT case with an AT style keyboard and switchable clock (4.77MHz/10MHz). Standard features include 640k RAM, parallel and serial ports, joystick port, clock/ calendar, display card and floppy controller. Australian assembled with 6 months warranty.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS 3.2**
Memory: **640k**
D'tte: **2 x 360k**
Hard Disk: **20Mb - 140Mb**
Display Format: **Monochrome or Colour**
Monitor: **Optional**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **From \$1950.00**
Supplier: **Eastern Micro Electronics**

Pronix 8TCIF

This XT compatible has a locking keyboard with hinged lid and 1 year warranty. It features an external switch to select either 4.77MHz or 8MHz processor speeds and is fully supported by Fox Computers. The 8TC1220 comes standard with the 10Mb hard disk and retails for \$3170.00.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS**
Memory: **640k**
D'tte: **1 x 360k**
Hard Disk: **20Mb**
Display Format: **CGA**
Ports: **Parallel and RS232**
Price: **\$2170.00**
Supplier: **Foxcom**

Pulsar 286

A single board computer based on the 80286 with onboard EGA graphics, I/O clock.

CPU: **80286**
Op. Sys.: **PC/MS-DOS, Xenix**
Memory: **1000k**
D'tte: **360k & 1.2Mb**
Hard Disk: **To 300Mb**
S'ware incl.: **DOS, GW BASIC**
Ports: **Parallel and RS232**
Price: **\$3360.00**
Supplier: **Pulsar Electronics Pty Ltd**

Pulsar 88

A single board computer based on the 8088-1 with on board EGA graphics I/O and clock.

CPU: **8088-1**
Op. Sys.: **PC/MS-DOS, Xenix**

Memory: **768k**
D'tte: **360k or 1.2Mb**
Hard Disk: **To 300Mb**
S'ware incl.: **DOS, GW BASIC**
Price: **\$1900.00**
Supplier: **Pulsar Electronics Pty Ltd**

SAKATA SPC-2100C

The Sakata SPC-2100C is a PC/AT compatible machine with software selectable turbo mode running at 10MHz. It features a Phoenix BIOS fully licenced, for excellent compatibility with a wide range of operating systems and applications software. A fast workhorse suitable for multi-user applications, support for multi-serial cards available.

CPU: **80286**
Op. Sys.: **PC/MS-DOS, Xenix, Pick**
Memory: **640 - 16000k**
D'tte: **1.2Mb**
Hard Disk: **30Mb**
Display Format: **80 x 25**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$3970.00**
Supplier: **Multitech Computers Pty Ltd**

SDS (AT compatible)

Clock speed 6/8MHz or 6/10MHz. 5 VLSI chips, 180 watt switching power supply, mono or colour graphic card, 84 key keyboard for XT/AT, switchable. Enhanced AT style keyboard also available. 6 month warranty. Service and support.

CPU: **80286**
Op. Sys.: **PC/MS-DOS**
Memory: **512 - 1024k**
D'tte: **1.2Mb**
Hard Disk: **21Mb**
Display Format: **80 x 25**
Ports: **Parallel and RS232**
Price: **\$2800.00 including tax**
Supplier: **Streamline Data Services Pty Limited**

SDS (Turbo XT compatible)

Clock speed 4.77MHz or 8MHz switchable via keyboard or hardware. 150 watts power supply. Legal BIOS and operating system. Runs Lotus 1-2-3, Flight simulator, Dataflex, Tas+ and all popular 16-bit software. Optional 8087 co-processor. Norton utility SI index 1.7 at 4.77MHz and 3.0 at 8 MHz.

CPU: **V-20**
Op. Sys.: **PC/MS-DOS 2.0/3.0**
Memory: **640k**
D'tte: **360k**
Hard Disk: **21Mb**

Display Format: **80 x 25**
Monitor: **Optional Thomson**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$1750.00 including tax**
Supplier: **Streamline Data Services Pty Ltd**

SKAI - PC

The SKAI PC is a very high quality computer that comes with a 12 month warranty. It is built in Melbourne using the highest quality components from all over the world. This machine is solid, reliable, of stable construction and is ergonomically attractive.

CPU: **8088**
Op. Sys.: **PC/MS-DOS, Xenix, Novell, Pick**
Memory: **640 - 12000k**
D'tte: **360k**
Hard Disk: **58Mb**
Display Format: **MDA, CGA, EGA, Hercules**
Monitor: **Monochrome (TTL or composite) CGA or EGA**
No. Function Keys: **10**
Ports: **Parallel and RS232**
Price: **\$1975.00**
Supplier: **Porchester Computers**

SKAI 286

The SKAI-286 is the flagship of the SKAI range of personal computers featuring a 10MHz 80286 running with zero wait states. Packed into a box with an XT-footprint but AT height, to run boards designed for the IBM AT. An additional feature is the inbuilt serial port and battery-backed clock calendar on the motherboard.

CPU: **80286**
Op. Sys.: **PC/MS-DOS, Xenix, Novell, Pick**
Memory: **640 - 12000k**
D'tte: **360k or 1.2Mb**
Hard Disk: **85Mb**
Display Format: **MDA, CGA, EGA, Hercules**
Monitor: **Monochrome (TTL or composite) CGA, EGA or PGA**
No. Function Keys: **12**
Ports: **Parallel and RS232**
Price: **\$3995.00**
Supplier: **Porchester Computers**

SKAI XT-Turbo

The SKAI XT-Turbo is a powerful XT compatible able to access 12Mb of RAM. The supplier claims is thoroughly tested and very reliable.

CPU: **8088-2**
Op. Sys.: **PC/MS-DOS, Xenix, Novell, Pick**
Memory: **640 - 12000k**

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PC/XT compatible

- JEC-8800** PC/XT compatible mini system (4.77/8 Mhz)
* monochrome or color display
* serial, parallel and game port clock/calendar
* 5-1/4-inch Floppy Disk Drive (optional)
* 20 MB Winchester Hard Disk Drive (optional)
- JEC-2000** PC/XT compatible system (4.77 MHz)
* Monochrome or color display
* 5-1/4-inch Floppy Disk Drive (optional)
- JEC-2100** PC/XT compatible Turbo system (4.77/8 MHz)
* monochrome or color display
* 5-1/4-inch Floppy Disk Drive (optional)
- JEC-662MB** PC/XT mainboard (640K expandable, 8088 CPU, 4.77 MHz)
- JEC-670MB** Turbo mainboard (640K expandable, 8088-2 CPU, 4.77/8 MHz)
- JEC-602** monochrome graphic/printer card
- JEC-604** color graphic card (w/2 additional composite ports)
- JEC-615** color graphic/printer card
- JEC-621** 576KB RAM card (0K RAM)
- JEC-609** printer card with cable
- JEC-612** RS-232 card with cable
- JEC-606** disk driver card
- JEC-605** multi I/O card

PC/AT compatible

- JEC-3213** PC/AT mini system (6/8 or 6/10 MHz)
* 1.2MB Floppy Disk Drive (optional)
* 20MB Winchester Hard Disk Drive (optional)
* monochrome or color display
* F.D.D./H.D.D. controller
- JEC-3201** PC/AT mainboard (6/8 MHz, 1MB expandable)
- JEC-3202** mini AT mainboard (6/8 MHz, 1MB expandable)
- JEC-3205** F.D.D. (360KB/1.2MB) controller
- JEC-3207** 3MB multifunction card
- JEC-3208** 3.5MB Ram card
- JEC-3209** serial/parallel card (2nd serial optional)
- JEC-3215** enhanced graphic printer card
- JEC-3215B** enhanced graphic card

We have many more items for your further contacts!

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D'tte: 360k
 Hard Disk: 58Mb
 Display Format: MDA, CGA, EGA or Hercules
 Monitor: Monochrome (TTL or composite), CGA or EGA
 No. Function Keys: 12
 Ports: Parallel and RS232
 Price: \$2225.00
 Supplier: Porchester Computers

Sharp PC7000

The PC7000 is a transportable unit with the full capabilities of a desktop PC, yet weighs only 8.5 kg. The 8086-2 provides more power than a standard desktop while the inbuilt screen emulates both monochrome and graphics modes. Options for the PC7000 include a colour graphics adaptor, a transportable Epson compatible printer, carry case and expansion unit with 10Mb hard disk. Available with 10Mb hard disk replacing one diskette drive for \$5900.

CPU: 8086-2
 Op. Sys.: PC/MS-DOS 2.11
 Memory: 384 - 768k
 D'tte: 320/360k x 2
 Hard Disk: 10Mb (optional)
 Display Format: 80 x 25

Monitor: Backlit LCD - Mono graphics
 No. Function Keys: 10
 Ports: Parallel and RS232
 Price: \$3895 RSP including sales tax
 Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC7500

The PC7500 is an IBM AT compatible computer which will run at 6 or 8MHz. This power can be used to efficiently run multiuser systems including THEOS, XENIX and PICK. For multiuser use the RAM can be expanded to 16Mb or 640kb for MS-DOS. A variety of hard disks can be used ranging from 20 to 80Mb for MS-DOS and higher for other operating systems.

CPU: 80286
 Op. Sys.: PC/MS-DOS 3.10
 Memory: 512 - 10000k
 D'tte: 1.2Mb
 Hard Disk: 20 - 80Mb option
 Display Format: 80 x 25
 No. Function Keys: 10
 S'ware incl.: GW BASIC 3.10
 Ports: Parallel and RS232
 Price: \$5200.00
 Supplier: Sharp Corporation of Australia Pty Ltd

Sony Model 10

This machine is a professional word processing system. It is designed especially to meet the needs of secretaries, journalists and writers. It has the ease, speed, power and reliability of a word processor but can also be used for spreadsheets, databases etc.

CPU: 2 x Z80A
 Op. Sys.: Proprietary Sony Multi-Tasking
 Memory: 256k
 D'tte: 780k x 2 or 4
 Display Format: 80 x 25
 Monitor: Built in Hi-res (640 x 400) black on white
 No. Function Keys: 26
 S'ware incl.: Word Processing, Communications, Spelling, MailMerge
 Ports: Parallel and RS232
 Price: \$3000.00 including sales tax
 Supplier: Sony (Australia) Pty Ltd

Sotec PHC-1602

Cordless keyboard. 6kg weight.
 CPU: 80C88
 Op. Sys.: PC/MS-DOS
 Memory: 512 - 1024k
 D'tte: 360k

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- * PC/AT Main Boards (6-8-10-12 MHz)
- * PC/XT 8 MHz Turbo Boards (4 layers)
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- * Add-on Cards

Powerless Short-haul Modem

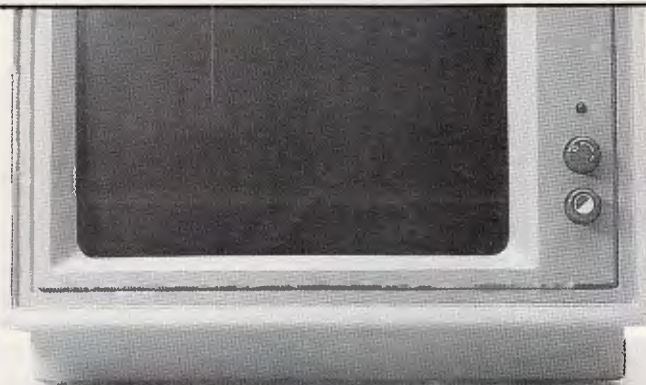
- * The modem can operate on both Half-Duplex and Full-Duplex with transmission Baud rate from D.C. to 19.2K BPS.
- * The modem provides transmission over longer distance at proportionally lower Baud rates it's used for in-house communication in a plant.
- * The device is available with a Male or Female connector.



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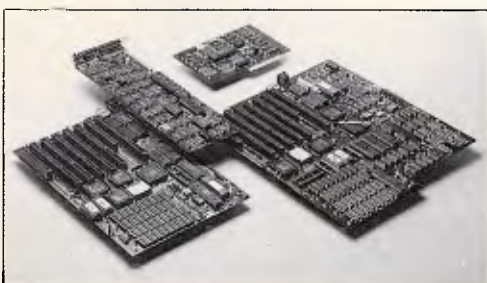
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BUS



PORTABLE



- MX-2001** Turbo XT 16-bit bus Computer
- 8088-2 CPU, 8087-2 optional
 - 8/4.77 MHz switchable
 - CPU card, 7 slots

- MX-2002** Turbo AT 32-bit bus Computer
- 80286 CPU, 80287 optional
 - 10/8 MHz switchable
 - CPU card, 7 slots
 - * ROOM FOR 3X DRIVES
 - * Dimension- 42cm x 31cm x 17cm

- MX-003** Turbo XT 16-bit Portable Computer
- 8088-2 CPU
 - Expandable to 640KB
 - 8 slots, room for 3x drives

- MX-004** Turbo AT 32-bit Portable Computer
- 80286 CPU
 - Expandable to 1MB
 - 8 slots, room for 3x drives
 - * 9" CRT Dual Frequency
 - * Dimension- 48cm x 42cm x 18cm

- MS-1001C** PC/AT compatible Mother Board
- 80286-8 or 10 CPU
 - Built-in FDD controller
 - Can work with XT type HDD controller
 - 6/8 MHz or 8/10 MHz
 - 640KB/1MB RAM selectable

- MS-1001D** Baby AT Compatible Mother Board
- MS-1006** 1.2MB/360KB FDD Controller
(may work with XT type HDD controller)

Display Format: **Gas lit, colour graphics**
 Monitor: **Built in gas lit screen**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$3225.00**
 Supplier: **Micron Computers Australia**
Kohjinsha Sotec Australia

Starcard 286 (AT/Starcard Transportable)

Starcard Australia has produced an Australian designed and assembled AT and AT Transportable. They have been designed by an ex-IBM engineer and are of very high quality. They have an increasing base of previously IBM-only clients in many major Australian corporations. All units feature 10MHz processors and voice coil hard disks for reliability.

CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640 - 8000k**
 D'tte: **1.2Mb**
 Hard Disk: **26 - 44Mb**
 Display Format: **80 x 25**
 Monitor: **Taxan**
 No. Function Keys: **12**
 S'ware incl.: **Starcard DOS**
 Ports: **Parallel and RS232**
 Price: **AT \$5950.00, AT Transportable \$5450.00**
 Supplier: **Starcard Australia Pty Ltd**

Starcard 30 (XT)

The Starcard XT is designed by an ex-

IBM engineer and features a 10MHz processor and voice coil hard disk.
 CPU: **8088-3**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640 - 8000k**
 D'tte: **360k**
 Hard Disk: **26 - 44Mb**
 Display Format: **80 x 25**
 Monitor: **Taxan**
 No. Function Keys: **12**
 S'ware incl.: **Starcard DOS**
 Ports: **Parallel and RS232**
 Price: **\$3600.00**
 Supplier: **Starcard Australia Pty Ltd**

Super-PC/AT (TPCAT)

Choice of CGA or HGC. AT style keyboard. 12 Function key keyboard optional. Serial/parallel ports and real time. 6/8MHz switchable, 6/10/12MHz optional.

CPU: **80286**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **1024 - 16000k**
 D'tte: **1.2Mb**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$2995.00**
 Supplier: **Super-PC**

Super-PC/XT Standard Computer (SPCXT)

Multi I/O with real time AT Style keyboard. Choice of CGA or HGC. 12

function key keyboard optional. The Turbo version with a switchable 4.77/8MHz CPU retails for \$2395.00. A package deal offering the XT with no hard disk, but with printer and monitor is available for \$1750.00.

CPU: **8088**
 Op. Sys.: **PC/MS-DOS 3.2**
 Memory: **640k**
 D'tte: **2 x 360k**
 Hard Disk: **20Mb**
 Display Format: **80 x 25**
 Monitor: **Monochrome**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$2195.00**
 Supplier: **Super-PC**

Syncomp Turbo AI

With memory expansion cards this machine can access 8.8Mb of RAM.

CPU: **80286-10**
 Op. Sys.: **PC/MS-DOS 3.1**
 Memory: **640k**
 D'tte: **1 x 1.2Mb**
 Hard Disk: **20Mb**
 Display Format: **HMD**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **\$4235.00**
 Supplier: **CREX Computer Wholesalers**

Syncomp Turbo XI

CPU: **NEC V20**
 Op. Sys.: **PC/MS-DOS 3.1**
 Memory: **640k**
 D'tte: **2 x 360k**
 Display Format: **HMD**
 No. Function Keys: **10**
 Ports: **Parallel and RS232**
 Price: **P O A**
 Supplier: **CREX Computer Wholesalers**

TCI Advanced

Includes 640k RAM; mono monitor; mono graphics; DOS 3.1; 1.2Mb floppy; 6/10MHz; dual floppy/hard disk controller.

CPU: **80286**
 Op. Sys.: **DOS, Xenix, Concurrent PC-DOS, Novell**
 Memory: **512 - 5000k**
 D'tte: **360k/1.2Mb**
 Hard Disk: **20-140Mb**
 Display Format: **IBM**
 Monitor: **Mono - optional colour & EGA**
 No. Function Keys: **10**
 S'ware incl.: **DOS 3.1**
 Ports: **Parallel and RS232**
 Price: **\$3992.00 ex tax (Mono, 20Mb)**
 Supplier: **Trident Computer Industries Pty Ltd**



TRIDENT COMPUTER INC.

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IPX PC-301	IPX 401 XT	IPX 8088 XT	IPX 286 AT-TURBO IPX TURBO XT	IPX 386



IpeX Component Special Selection

Standard Selection component is tested against a set of specifications. If it is 100% it passes, otherwise it's rejected. **IpeX Special Selection**, pass is at 140% minimum.

IpeX Quality Tests

Each Computer is subject to seven thermal shocks similar to NASA test procedure. By the end of the test any weak computer will be rejected.

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4 Echelons of Service

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2. Repair to Component level - Service Centre.
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6 speed - selectable
2 Floppy Drives (1.2Mb, 360Kb)
1 Back up Tape - Cartridge
2 Hard Disk Drive - 140Mb
640 K Expand - 12Mb
Extended Keyboard
200 W Power Supply
Serial, Parallel
EGA, CGA, MDA, Magic Video
Reset, Keylock, etc.

IPX 88 Turbo

4.77 - 8 Mhz Select
2 Floppy Drives
1 Back up Tape - Cartridge
1 Hard Disk - 30Mb
640Kb, Auto Clock,
Serial, Parallel, Game,
EGA, CGA, Hercules, Magic,
Reset, Keylock, etc.

IPX 8088 XT-AT

8088 - 4.77 Mhz
80286 - 8 Mhz
Selectable, Cache Memory
2 Floppy Drives,
1 Back up Tape - Cartridge
1 Hard Disk - 30Mb
640Kb, Auto Clock
Serial, Parallel, Game
Color - TTL Video etc.

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OSCAR.

from the people who brought you Hal

OSCAR TURBO: CONFIGURATION

Processor: 8088-2 AT 4.77/8 MHz (switchable)

User memory: 640k

Storage: Dual 360k floppy disk drives (Weltec)
Winchester (optional, Microscience)

Display adapter: TTL monochrome/colour/enhanced
graphics

I/O: parallel, serial (2nd optional) and games ports, real-time
clock with battery backup

Keyboard: 84 keys (at type)/enhanced 101 keys

Operating system: fully licensed MS DOS/GW basic 3.2

Power supply: 150w

Warranty: 12 months

OSCAR MINI AT: CONFIGURATION

Processor: 80286-8 AT 8/10 MHz (switchable)

User memory: 1MB

Storage: 1.2MB floppy disk drive
Winchester (optional, Microscience)

Display adapter: TTL monochrome/colour/enhanced
graphics

I/O: dual RS 232, parallel printer port real-time clock with
battery backup

Keyboard: enhanced 101 keys

Operating system: fully licensed MS DOS/GW basic 3.2

Power supply: 200w

Warranty: 12 months

Note: All specifications may change without notice

EASYFIX

Winchester Drive card

Easyfix technical data:

Model	ECH-20 +	ECH-32 +
Capacity formatted	21.4	32.0
Data transfer rate (Mbits per sec)	5.0	7.5
Access time (average Msec)	68	35

MICROSCIENCE

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Oscar PC, Easyfix

and Microscience Winchester Drives are brought to you by Digital Laboratory

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Oscar authorised dealers: New South Wales: **Drummoyne**, Microstation, 819 6348; **Chippendale**, Computer Exchange, 698 8855; **Brookvale**, The Computer Factory, 938 2522; **St. Leonards**, Advance Technical Sales, 437 6844; **Hornsby**, Intelsoft Aust., 476 4543; **Parramatta**, Foremost Office Equipment Pty Ltd, 635 5477; **Newcastle**, Pacific Office Machines, 944 22358; **Grafton**, Grafton Computer Centre, 066 42 6790; **Port Macquarie**, Hastings Computer Services, 065 831069; **Bega**, Bega Business Systems, 0649 23022; Queensland: **Maryborough**, Kellor Electronics, 07 21 4559; **Ipswich**, Computer Magic, 07 816 1830; **Nambour**, Nambour Electronics, 071 41 1604; **Toowoomba**, Hunts Computer Shop, 076 385001; **Rockhampton**, Access Electronics, 079 22 1058; **Warwick**, Audivision, 076 61 3131; **Gold Coast**, Master Key Computer, 075 38 2753; ACT: **Canberra**, Actcomp, 062 51 4477; WA: **Perth**, Perth Computer Mart, 09 370 2166.

TCI Turbo

Turbo 4.77/8MHz, PC/XT compatible, tested as Novell server/slave.

CPU: **PC8088-2**

Op. Sys.: **PC/MS-DOS, Concurrent PC-DOS, Novell**

Memory: **256 - 640k**

D'tte: **360k/1.2Mb**

Hard Disk: **20 - 44Mb**

Display Format: **IBM**

Monitor: **Monochrome - Optional Colour or EGA**

No. Function Keys: **10**

S'ware incl.: **DOS**

Ports: **Parallel and RS232**

Price: **\$1367.00 ex tax**

Supplier: **Trident Computer Industries Pty Ltd**

Tandy 1000 Ex

The Tandy 1000 is a cheap MS-DOS compatible computer with a 90 key keyboard and inbuilt disk drive. It has a three voice sound circuit for sound and music generation and a headphone jack. The deskmate software includes a text processor a spreadsheet (99 cols x 99 rows) a file manager, calculator, notepad, calendar and phone directory. "Paint" allows you to draw and save graphics.

CPU: **8088**

Op. Sys.: **PC/MS-DOS 2.11**

Memory: **256k**

D'tte: **1 x 360k floppy**

Display Format: **80/40 x 25 char, 640x200 graph**

No. Function Keys: **12**

S'ware incl.: **DeskMate with text entry, worksheet and desktop.**

Ports: **Parallel**

Price: **\$1499.00**

Supplier: **Intertan**

Tandy 1000 Sx

The Tandy 1000 Sx comes with the upgraded Desk Mate II which runs in background so you can switch between applications at a few keystrokes. On startup a calendar, appointments list and file directory is displayed.

CPU: **8088**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **384 - 640k**

D'tte: **2 x 360k**

Display Format: **80/40 x 25**

No. Function Keys: **12**

S'ware incl.: **DeskMate II**

Ports: **Parallel**

Price: **\$2299.00**

Supplier: **Intertan**

Tandy 3000 HD

The AT compatible Tandy 3000 comes

bundled with Deskmate II offering a text processor, spreadsheet, calculator, calendar, appointments diary and file manager and graphics package.

CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.1**

Memory: **512 - 640k**

D'tte: **1 x 1.2Mb**

Hard Disk: **20Mb**

Display Format: **80 x 25**

S'ware incl.: **Desk Mate II**

Ports: **Parallel and RS232**

Price: **\$9228.95**

Supplier: **Intertan**

Tandy 3000 HL

The Tandy 3000 HL is XT compatible but uses the faster 80286 processor. It will run networking software for IBM XTs. Add on boards can expand memory to 4Mb extra floppy or hard disk drives can be installed.

CPU: **80286**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **640k**

D'tte: **1 x 360k**

No. Function Keys: **10**

Price: **\$4198.95**

Supplier: **Intertan**

Tomcat

Tomcat Computers offer two fully IBM compatible machines at low cost. The basic system comes with dual floppys (5.25"), 640k of memory, multifunction card including the IBM standard colour graphics adaptor.

CPU: **8088**

Op. Sys.: **MS-DOS**

Memory: **640 - 1000k**

D'tte: **2 x 360k**

Hard Disk: **20Mb**

Display Format: **ASCII**

No. Function Keys: **10**

Ports: **RS232**

Price: **\$1500.00**

Supplier: **Tomcat Computers**

Toshiba T1100

Battery operated portable with single disk drive and liquid crystal screen. Telecom approved modem No.C86-391529 V21 V23. Parallel port, RGB port standard. Completely IBM PC compatible, external 5.25 360k drive and 3.5 inch 720k external. CGA built in dimensions 31.1 x 6.6 x 30.5 cm. Weight 4.1 kg.

CPU: **80C88**

Op. Sys.: **MS-DOS 2.11**

Memory: **256 - 512k**

D'tte: **1 x 720k**

Display Format: **80 x 25 LCD**

Monitor: **LCD included**

No. Function Keys: **10**

S'ware incl.: **DOS**

Ports: **Parallel**

Price: **\$2637.00 including tax**

Supplier: **Toshiba Australia**

Toshiba T1100+

IBM compatible laptop portable, built in CGA, two floppy drives 720k 3.5", improved LCD screen, parallel and serial ports standard. RGB and composite ports standards, optional 5.25 external drive. Expansion chassis available which accepts 5 x IBM PC cards. Real time clock. Car power adaptor available. Telecom approved internal modem available March. 80C86 processor running at 7.16 or 4.77MHz. Norton utilities rating of 1.7. Dimensions 30.7 x 6.6 x 30.5 cm. Weight 4.5 kg.

CPU: **8086**

Op. Sys.: **PC/MS-DOS 3.2**

Memory: **256k**

D'tte: **2 x 720k**

Display Format: **80 x 25**

Monitor: **LCD screen included**

No. Function Keys: **10**

S'ware incl.: **DOS**

Ports: **Parallel and RS232**

Price: **\$3890.00 including tax**

Supplier: **Toshiba Australia**

Toshiba T1500

IBM PC desktop compatible running at 4.77MHz. Built in graphics (CGA). Comes standard with 384k (upgradable to 640k), parallel printer port, 3 expansion slots available for IBM PC cards and a socket for 8087. Available with dual floppy or single floppy with 10Mb hard disk.

CPU: **8088**

Op. Sys.: **MS-DOS 2.11**

Memory: **128 - 640k**

D'tte: **2 x 360k**

Hard Disk: **Mb optional**

Display Format: **80 x 25 colour**

Monitor: **14" colour display**

No. Function Keys: **10**

S'ware incl.: **DOS**

Ports: **Parallel and RS232**

Price: **\$4500 for hard disk version**

Supplier: **Toshiba Australia**

Toshiba T2100

IBM compatible portable, dual floppy or single floppy with 10Mb hard disk. Uses a 8086-2 running at 7.16 or 4.77MHz. Comes with a plasma screen (640 x 400), RGB and composite ports, serial and parallel ports and real time clock. Dimensions: 31.1 x 8 x 36 cm. Weight: 5.9 kg. Internal Telecom approved V21, V22, V23 modem available in March. Switchable power supply 110-240V.

Socket for co-processor. Classed as hard luggage by airlines.

CPU: 8086

Op. Sys.: PC/MS-DOS 2.11

Memory: 256 - 640k

D'tte: 2 x 720k

Hard Disk: 10Mb

Display Format: 80 x 25 plasma

Monitor: Plasma display included 640 x 400

No. Function Keys: 10

S'ware incl.: DOS

Ports: Parallel and RS232

Price: \$4750.00 dual floppy, \$6900.00 for 10Mb hard disk

Supplier: Toshiba Australia

Minima Computer Services Pty Ltd

Toshiba T3100

IBM AT compatible 80286 running at 8 or 4.77MHz internal. 10 or 20Mb hard disk and 1 x 720k 3.5 inch floppy. Serial, parallel, RGB ports are standard external 5.25 360k drive optional. Plasma display 640 x 400. 640k memory expandable to 2.6Mb. Optional expansion chassis to take 5 x IBM PC cards. Internal V21, V22, V23 modem with Telecom approval

available March.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.2

Memory: 640k

D'tte: 1 x 720k

Hard Disk: 10 or 20Mb

Display Format: 80 x 25 plasma

Monitor: Plasma display 640 x 400

No. Function Keys: 10

S'ware incl.: DOS

Ports: Parallel and RS232

Price: \$8900.00 including tax

Supplier: Toshiba Australia

Trident 14MHz

Turbo running at 14MHz. PC/XT compatible.

CPU: 8088

Op. Sys.: PC/MS-DOS, Xenix, Conc.,

Th'bred, netwks

Memory: 256 - 640k

D'tte: 360k/1.2Mb

Hard Disk: 20 to 44Mb

Display Format: IBM

Monitor: Monochrome - optional colour and EGA

No. Function Keys: 10

S'ware incl.: DOS

Ports: Parallel and RS232

Price: \$1367.00 ex tax

Supplier: Trident Computer Industries Pty Ltd

Triumph Adler P50

The P50 computer is an IBM compatible built by Triumph Adler in Germany. The computer boasts high quality German construction, high performance 80186 CPU with up to 704k of memory. Will run either monochrome or CGA software on the standard machine.

CPU: 80186

Op. Sys.: PC/MS-DOS 3.2

Memory: 256 - 704k

D'tte: 360 or 720k

Hard Disk: 20 or 32Mb

Display Format: Monochrome or colour

Monitor: Triumph Adler high resolution monochrome

No. Function Keys: 18

Ports: Parallel and RS232

Price: \$2469.00 for 256k, 360k floppy, monochrome display.

Supplier: Triumph Adler

Turbo

The Turbo machine is standard with 640k RAM on motherboard, 2 floppy disk drives, multifunction card, etc.

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basic time PC/XT

* MS DOS 3.1

An operating system written by MicroSoft. DOS (Disk Operating System) is a collection of utility programs written as an interface between the computer and the operator.

* 360KB FLOPPY

Used as a storage device for programs, data, etc. 360KB means a floppy diskette placed in the floppy drive unit can hold 360,000 characters of data.

* IBM COMPATIBLE

The machine "operates" very similarly to an IBM PC or XT. Thus it is a compatible. Software written for IBM machines or hardware accessories will also run successfully.

* 640K RAM

Random Access Memory is used to hold the program being executed and the data being processed. 640K (640,000 Bytes) is the maximum DOS addressable memory.

In addition; 1 Serial, 2 Parallel, 1 Games port & battery backed clock/calendar.



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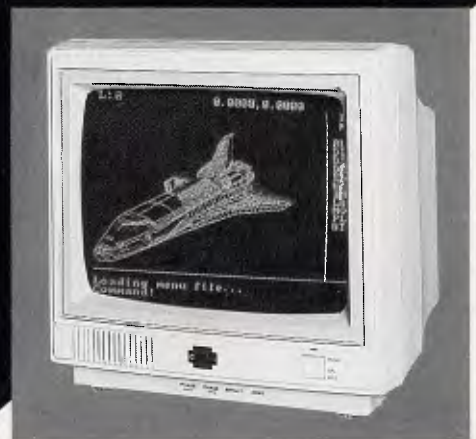
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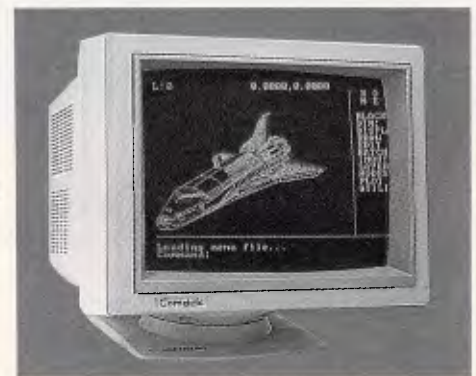
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CPU: NEC V20
Op. Sys.: PC/MS-DOS 3.2
Memory: 640k
D'tte: 360k
Hard Disk: Range available
Display Format: 80 x 25
Monitor: Monitors available.
No. Function Keys: 10
Ports: Parallel and RS232
Price: \$1572.00
Supplier: Tristar Business Systems

Ultra AT

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CPU: 80286-8
Op. Sys.: PC/MS-DOS
Memory: 512 - 16000k
D'tte: 1.2Mb
Hard Disk: Extra
Display Format: CGA or HGA
Monitor: Extra
No. Function Keys: 10
S'ware incl.: Database, Word Processor, Spreadsheet, Graphics, Accounting
Ports: Parallel and RS232
Price: \$1850.00
Supplier: Lysco

Ultra Turbo XT

The Ultra Turbo XT from Imagineering comes standard with AT style keyboard, manuals, blank diskettes and a cross section of public domain software. Models with monochrome (Green or Amber), colour, EGA or High Resolution monitors, dual floppy diskettes or a 20Mb hard disk are available. Dual floppy and monochrome monitor is \$2145 ex.tax. 20Mb Hard disk and standard colour monitor: \$3295 ex.tax.
CPU: 8088-2 4.77/8MHz
Op. Sys.: MS-DOS
Memory: 640k
D'tte: 1 x 360k 5 1/4"
No. Function Keys: 10
S'ware incl.: Public Domain
Ports: Parallel and RS232
Price: \$1495 ex.tax
Supplier: Imagineering

Ultra V20

2 x 360k disk drives. Four layer Japanese motherboard. 12 months warranty; Hills or

Honeywell service contracts available. Variety of low cost hard disks available. Game port standard.
CPU: NEC V20
Op. Sys.: PC/MS-DOS
Memory: 640 - 1024k
D'tte: 360k
Hard Disk: Extra
Display Format: CGA or HGA
Monitor: Extra
No. Function Keys: 10
S'ware incl.: Database, Word Processor, Spreadsheet, Graphics, Accounting
Ports: Parallel and RS232
Price: \$1249.00
Supplier: Lysco

Ultra XT

National disk drive, CGA or Hercules compatible card, Hills or Honeywell service available, two serial ports. Extra \$730.00 for 20Mb hard disk (Seagate/Tandon/Miniscribe) with controller. AT keyboard standard. Game port standard. A version with 2 disk drives (the Ultra Turbo) and switchable between 4.77 and 8MHz is available for \$1200.00.
CPU: 8088
Op. Sys.: PC/MS-DOS
Memory: 640k
D'tte: 360k
Display Format: 80 x 25 (CGA or HGA)
Monitor: Extra
No. Function Keys: 10
S'ware incl.: Database, Word Processor, Spreadsheet, Graphics, Accounting
Ports: Parallel and RS232
Price: \$950.00
Supplier: Lysco

Unisys PC/IT

The Unisys PC/IT is a high performance 80286 based system. It offers incredible expandability and functionality. An 80287 coprocessor is standard, as well as two serial RS232 ports. Multiple disk configuration provides storage capacities from 40Mb to 230Mb making the PC/IT the ideal system for multi-user systems or as a Data/Print Server in local area networks.
CPU: Intel 80286
Op. Sys.: PC/MS-DOS 3.2, Xenix Sys 5, Pick
Memory: 512 - 5000k
D'tte: 360k or 1.2Mb
Hard Disk: 40/70/115Mb
Display Format: Mono or colour graphics
Monitor: Yes
No. Function Keys: 10
S'ware incl.: Basic, Diagnostics
Ports: Parallel and RS232
Price: \$5500.00
Supplier: Unisys

Unisys PC/Micro IT

The Unisys PC/Micro IT represents the state-of-the-art in 80286 technology. It incorporates VLSI and surface mounted technology to provide a 8MHz zero wait state CPU in a very small compact footprint. It offers the ultimate desktop executive single user system or the ideal entry level system into multi user systems.
CPU: Intel 80286
Op. Sys.: PC/MS-DOS 3.2 and Xenix System 5
Memory: 512 - 3500k
D'tte: 360k or 1.2Mb
Hard Disk: 20Mb
Display Format: Mono or colour graphics
Monitor: Yes
No. Function Keys: 10
S'ware incl.: Basic, Diagnostics
Ports: Parallel and RS232
Price: \$4000.00
Supplier: Unisys

Unitron

A high throughput PC-XT compatible with a four layer motherboard. This machine is designed for long life operation.
CPU: 8088-2
Op. Sys.: PC/MS-DOS 3.2
Memory: 640k
D'tte: 2 x 360k
Hard Disk: 20Mb
Display Format: CGA
No. Function Keys: 10
Price: \$1850.00
Supplier: Canning Computer Centre

Vienna Advanced Office Computer (AOC)

The Vienna Advanced Office Computer offers support for both single-user MS-DOS and multi-user Xenix operating environments, and has full operational compatibility with the IBM PC-AT. Options include a wide range of screens and keyboards, including the Vienna black and white terminal, a 60Mb streaming tape cartridge for backup, and support for up to 8 users.
CPU: 80286
Op. Sys.: Xenix, PC/MS-DOS
Memory: 512 - 7000k
D'tte: 1.2Mb
Hard Disk: Up to 224Mb
Display Format: 720 x 348 pixels, 80 x 25
No. Function Keys: 10
Ports: Parallel and RS232
Price: P O A
Supplier: AWA-Nortel Pty Limited

MCA

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- Includes a Samsung Monochrome Composite Monitor

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Vienna Advanced Office Computer, Desktop

The Vienna AOC Desktop is an entry-level system into the Vienna range. It is a small footprint MS-DOS machine, designed for high speed stand-alone applications processing, or as a network workstation in a Vienna network. There are three desktop models in this range.

CPU: 80286

Op. Sys.: PC/MS-DOS

Memory: 512 - 3000k

D'tte: 1.2Mb

Hard Disk: 40Mb

Display Format: 720 x 348 pixels, 80 x 25

No. Function Keys: 10

Ports: Parallel and RS232

Price: P O A

Supplier: AWA-Nortel Pty Limited

WYSE PC

The WYSE PC is a high performance 9.54MHz 8088 based machine compatible with IBM PC/XT systems. It incorporates 256k RAM expandable to 640k on board, two serial/one parallel ports, real time clock. It provides fully integrated monochrome/colour/graphics display adaptor for functionality with IBM monochrome display, Hercules graphics card and IBM CGA card. It is expandable to hard disk and yet still retains two full size slots. With the hard disk the system costs \$4802.

CPU: 8088-1

Op. Sys.: PC/MS-DOS 3.1

Memory: 256 - 640k

D'tte: 360k

Hard Disk: 20Mb optional

Display Format: 25 x 80/132

Monitor: Yes - WY500 monochrome

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3188.00

Supplier: MPA Pty Limited

WYSE PC286 Single Floppy

Wyse PC286 is a 80286 based computer with single floppy that provides corporate users with the ideal base for network file servers. With inbuilt 640k RAM, 10MHz processor speed and eight slots the PC286 is fast and flexible enough to accommodate high capacity hard disks, gateway cards and tape drives. A high capacity 200 watt power supply is built in to handle any upgrade. The PC286/20, 40 and 65 models have hard disk drives and range in price from \$6554 to \$9325.

CPU: 80286

Op. Sys.: MS-DOS 3.1

Memory: 640 - 16000k

D'tte: 1.2Mb

Hard Disk: Optional

Display Format: 80 x 25 Hercules

Monitor: WYS30 Monochrome

Ports: Parallel and RS232

Price: \$5585.00

Supplier: MPA Pty Limited

Wang Advanced Professional Computer

Incorporates a 10Mb Winchester and thermal transfer printer. The Wang Advanced Professional can function as an integral part of a communications network with Wang WSN connection and/or remote 3270/SNA/BSC emulation.

CPU: 80286

Op. Sys.: PC/MS-DOS 2.0, 3.1, Xenix

Memory: 512 - 2000k

D'tte: 360k & 1.2Mb

Hard Disk: 10, 20, 30, 40, 67Mb

Display Format: 80 x 25, 132 x 25

Monitor: Mono- Green or Amber,

Colour - RGB

No. Function Keys: 16

S'ware incl.: Wang Menus

Price: P O A

Supplier: Wang Computer Pty Ltd

Wang Portable Computer

A lightweight (6.5 kg) portable incorporating a 10Mb Winchester and thermal transfer printer. It can also function as an integral part of a communications network with Wang WSN connection and/or remote 3270/SNA/BSC emulation.

CPU: NEC V30

Op. Sys.: PC/MS-DOS 3.2

Memory: 512 - 1000k

D'tte: 360k 5.25", 720k 3.5"

Hard Disk: 10Mb

Display Format: 80 x 25

Monitor: LCD super twist high contrast

No. Function Keys: 16

Price: \$5220.00

Supplier: Wang Computer Pty Ltd

Wang Professional Computer

Incorporates a 10Mb Winchester and thermal transfer printer the Wang Professional can function as an integral part of a communications network with Wang WSN connection and/or remote 3270/SNA/BSC emulation.

CPU: 8086

Op. Sys.: PC/MS-DOS 2.0 & 3.1

Memory: 512 - 768k

D'tte: 360k

Hard Disk: 10, 20, 30, 40Mb

Display Format: 80 x 25, 132 x 25

Monitor: Mono - Green or Amber,

Colour - RGB

No. Function Keys: 16

S'ware incl.: Wang Menus

Price: P O A

Supplier: Wang Computer Pty Ltd

Western Advantage 386

16MHz Intel processor 80387 or 80287. Memory on motherboard, plus 2 x 32-bit slots, 4 x 16 and 2 x 8-bit. EGA card will be chip on motherboard. Memory interleaved to save cycle stealing. Will accept ST506, NCL, ESDI, SCSI controllers and drives. Optional Australian-made tower-type case for floor standing to take several drives for mini-type operations. Will accept 16 port serial boards.

CPU: Intel 80386

Op. Sys.: PC/MS-DOS, Pick, Xenix, Unix

Memory: 500 - 26000k

D'tte: 1.2Mb

Hard Disk: 20 - 600Mb

Display Format: PGA, EGA

No. Function Keys: 10

S'ware incl.: DESQ

Price: P O A

Supplier: Western Computers

Australasia Pty Ltd

XRAM AT

This is a fully IBM AT compatible with colour graphics adaptor supplied as standard at a very reasonable price.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.1

Memory: 512 - 1000k

D'tte: 1 x 1.2Mb

Hard Disk: 20Mb

Display Format: 80 x 25

Monitor: Colour

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3110.00

Supplier: XRAM Computer Services

XRAM XT/Turbo

This IBM XT compatible comes standard with a games port and a colour graphics adaptor.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.1

Memory: 640k

D'tte: 2 x 360k

Hard Disk: 20Mb

Display Format: 80 x 25

Monitor: Colour

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$3110.00

Supplier: XRAM Computer Services

Zenith ZF-148-42

The compactly designed Z-148 is compatible with the IBM-PC software and can read/write IBM-PC software disks. The keyboard used with the system is functionally equivalent to the IBM-PC keyboard. A version with one floppy and 20Mb hard disk retails for \$4300.00.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.1

Memory: 640k

D'tte: 2 x 360k

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$2995.00

Supplier: ANITECH

Zenith ZW-158-82

The Z158 is operationally and plug compatible with the IBM PC. Diagnostics are built into ROM and are initiated at power on; also contained in ROM are user initiated diagnostics. This system has dual speed processing of 4.77MHz or 8MHz.

CPU: 8088-2

Op. Sys.: PC/MS-DOS 3.1

Memory: 640k

D'tte: 360k

Hard Disk: 20Mb

Display Format: Mono/RGB 640x200,

320x200

Monitor: Optional

No. Function Keys: 10

Ports: Parallel and RS232

Price: \$6625.00

Supplier: ANITECH

Zenith ZW-241-82

The Z241 introduces "System Administrator" and "Super user" functions for users to oversee the access and housekeeping of this system. The dual 8/16 bit bus system allows the use of IBM-PC/Zenith Z100PC cards and AT compatible cards. It is suitable for use as a network server. 20Mb hard disk is standard.

CPU: 80286

Op. Sys.: PC/MS-DOS 3.1, Xenix

Memory: 512 - 16000k

D'tte: 1.2Mb

Hard disk: 20 or 40Mb

Price: \$10695.00

Supplier: ANITECH

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Altos 1086 & 2086

The Altos 1086 offers 10 user support in a modular, multiple board design. High performance is achieved through a customised memory management unit, a 4k CPU cache, high capacity hard disk, and a multiple microprocessor design. The system can read and write IBM PC/AT diskettes, and can run most software written for the PC/AT under Xenix. The Altos 2086 comes standard with 2Mb of RAM and supports 20 users.

CPU: 80286

Op. Sys.: Xenix

Memory: 1000 - 8000k

D'tte: 1.6Mb

Hard Disk: 50/70/570Mb

No. Function Keys: 1

Ports: Parallel and RS232

Price: P O A

Supplier: Altos Computer Systems

Altos 3068

Altos 3068 uses a modular, multiple board design. Incorporating the 32-bit 68020, the Altos 3068 features an 8Kb cache, fast disks, and a multiple micro processor design. The system is mounted on a floor standing chassis with five functionally unique boards and three open slots.

CPU: MC68020

Op. Sys.: Unix System V, Pick

Memory: 1000 - 16000k

D'tte: 1.6Mb

Hard Disk: 50Mb - 1Gb

No. Function Keys: 1

Price: P O A

Supplier: Altos Computer Systems

Altos 3068 EP

A 32-user 32-bit supermicro running a 68020 at 16.7MHz with zero wait states. 2Mb-16Mb RAM. File and communication subsystems minimise load on CPU. High speed Comms ports. Up to 16B disk.

CPU: MC68020

Op. Sys.: Unix System V

Memory: 2000 - 16000k

D'tte: 1.6Mb

Hard Disk: 80Mb - 1Gb

Price: P O A

Supplier: Altos Computer Systems

Altos 3086

The Altos 3086 is a super microcomputer capable of providing support for up to 32 users. Based upon the Intel 80286 microprocessor operating at 12.5MHz with no wait states out of cache.

CPU: 80286

Op. Sys.: Xenix

Memory: 4000 - 8000k

D'tte: 1.6Mb

Hard Disk: 170Mb - 1Gb

Price: P O A

Supplier: Datamax Pty Ltd, Australia

Altos 686

Altos 686 is a compact multi-user desktop computer supporting up to 6 users. The 686 system features a variety of memory and mass storage options and is available in two models. These options provide a product range from low cost entry level system to a high capacity multi-user system.

CPU: 80286

Op. Sys.: Xenix

Memory: 512 - 2500k

D'tte: 1.6Mb

Hard Disk: 25 or 50Mb

Price: P O A

Supplier: Altos Computer Systems

Altos 886

The Altos 886 is an 8 user system similar to a large minicomputer configuration. Packaged in a desktop enclosure Altos 886 provides ample disk storage, tape backup and supports a wide range of Xenix based applications software.

CPU: 80286

Op. Sys.: Xenix

Memory: 1000 - 3000k

D'tte: 1.6Mb

Hard Disk: 50 to 80Mb

Price: P O A

Supplier: Altos Computer Systems

Atlantis 80386

This 32-bit MS-DOS PC can have up to 16Mb of RAM using expansion cards. It comes standard with a monochrome or colour graphics adaptor and 30Mb of hard disk and can optionally be fitted with the EGA card, and up to 150Mb of hard disk. It is suitable for multi-user applications and with 8 users still runs at twice the speed of an IBM PC.

CPU: 80386

Op. Sys.: PC/MS-DOS 3.1

Memory: 640 - 1000k

D'tte: 2 x 1.2Mb

Hard Disk: 30 - 150Mb

Display Format: CGA

Monitor: Optional

No. Function Keys: 12

Ports: Parallel and RS232

Price: \$13995.00

Supplier: Atlantis International Com-puters

B26

The B26 is a multifunction workstation enabling the user to run up to three or four applications simultaneously in memory

with a further seven or six swapped out to disk. This enables the user to switch from applications without finishing from his/her current application.

CPU: 80186

Op. Sys.: BTOS B25 Operating System

Memory: 256 - 1000k

D'tte: Maximum 8

Hard Disk: Maximum 270Mb

Display Format: 29 x 80

Monitor: In configured systems

No. Function Keys: 10

Ports: Parallel and RS232

Price: P O A

Supplier: Unisys

B28

The B28 offers a powerful master for any B25 cluster able to support 11 other BTOS workstations. The base 1Mb is used for applications whilst the upper 3Mb are used for cache memory to reduce disk I/O and improve performance.

CPU: 80286

Op. Sys.: BTOS

Memory: 1000 - 4000k

D'tte: Maximum 8

Hard Disk: Maximum 270Mb

Display Format: 29 x 80

Monitor: In configured system

No. Function Keys: 10

Ports: Parallel and RS232

Price: P O A

Supplier: Unisys

Cromemco 400 Series

Cromemco Computers are designed to meet the demands of the multi-user, multi-tasking Unix environment. Cromemco's 68010 and 68020 based 32-bit machines support up to 16Mb of RAM, over 300Mb of Hard disk and up to 65 users. Performance of the MC68020 based machines with the MC68881 maths chip is in excess of 1 million whetstones per second.

CPU: 68010 - 68020

Op. Sys.: Cromix Plus, Unix V

Memory: 1000 - 16000k

D'tte: 386k

Hard Disk: 300Mb +

Display Format: 24 x 80

No. Function Keys: 20

S'ware incl.: QOffice, Sirius Accounting, CL, Informix etc., available

Ports: Parallel and RS232

Price: \$18000.00 - \$20000.00

Supplier: Unisys Computer Services Pty Ltd

Datamax 186 Multi-user Computer

The Datamax 186 is a 16-bit multi-user, multi-tasking computer designed for the

small to medium sized organisations. The basic configuration supports from one to ten workstations. Expansion of the base unit to a power multi processor system is by means of additional processor boards (each with 1Mb RAM).

CPU: **Intel 80186**

Op. Sys.: **Concurrent DOS v.5**

Memory: **1000k**

D'tte: **360k/1.2Mb**

Hard Disk: **20 - 120Mb**

Display Format: **ASCII**

Ports: **Parallel and RS232**

Price: **\$11896.00**

Supplier: **Datamax Pty Ltd, Australia**

Datamax 286 Multi-User Computer

The Datamax 286 has a basic configuration that supports from one to ten users. Additional processor boards with memory enables the system to support up to 60 workstations without loss of performance.

CPU: **Intel 80286**

Op. Sys.: **Concurrent DOS v.5**

Memory: **1000 - 8000k**

D'tte: **360k/1.2Mb**

Hard Disk: **40 - 600Mb**

Ports: **Parallel and RS232**

Price: **\$12000.00**

Supplier: **Datamax Pty Ltd, Australia**

Datamax 386 Multi-user Computer

The Datamax 386 has a basic configuration that supports from one to ten users. Additional processor boards with memory enables the system to support up to 60 workstations without loss of performance.

CPU: **Intel 80386**

Op. Sys.: **Concurrent DOS v.5**

Memory: **1000 - 8000k**

D'tte: **360k/1.2Mb**

Hard Disk: **40 - 600Mb**

Ports: **Parallel and RS232**

Price: **P O A**

Supplier: **Datamax Pty Ltd, Australia**

Delta/16

Multi-user (up to 16 users) minicomputer system with Concurrent DOS, Ethernet networking with VAX and PC are available. Exported worldwide for DP, CAD/CAM, and technical computing applications. Fully Australian designed and manufactured. Foreign languages including various European and Chinese are supported.

CPU: **Intel 80286**

Op. Sys.: **Concurrent DOS 286**

Memory: **1000 - 7000k**

D'tte: **1.2Mb**

Hard Disk: **40 - 134Mb**

Display Format: **800 x 300 x 2 graphics, 80 x 25**

Monitor: **14" monochrome, 14" colour, 19" colour**

No. Function Keys: **22**

S'ware incl.: **CAD/CAM, Accounting, Manufacturing, Office Automation**

Ports: **Parallel and RS232**

Price: **\$20000.00**

Supplier: **Labtam Limited**

Delta/V32

Multi-user minicomputer system with Unix O/S, Ethernet networking with VAX and PC are available. Exported worldwide for DP, CAD/CAM, and technical computing applications. Fully Australian designed and manufactured. Foreign languages including various European and Chinese are supported.

CPU: **NS 32332-15**

Op. Sys.: **Unix system v.3**

Memory: **2000 - 12000k**

D'tte: **800k**

Hard Disk: **20Mb - 2.0Gb**

Display Format: **800 x 300 x 2**

graphics, **25 x 80**

Monitor: **14" monochrome, 14" colour, 19" colour**

No. Function Keys: **22**

S'ware incl.: **Unify, Today-4GL, Austec-Cobol, Labcad (Cad/Cam), etc.**

Ports: **Parallel and RS232**

Price: **\$24000.00 plus O/S.**

Supplier: **Labtam Limited**

ICL Quattro

Multi-user 1-8 Terminal System. Various models with varying disk capacity and speed. Terminals may be mono or colour, with or without high resolution graphics.

CPU: **8086/80286**

Op. Sys.: **C-DOS**

Memory: **512 - 5000k**

D'tte: **780k**

Hard Disk: **Up to 150Mb**

Price: **From \$5000.00**

Supplier: **South Pacific**

Computers Limited

ITT XTRA XL - Mod I - 95172

The ITT XTRA XL is useful in networks or as a true multi-user shared logic system teamed with Xenix V. Faster than the IBM PC/AT, the XL can support up to 16 users with 1.6 up to 16Mb of memory, 40Mb up to 144Mb hard disk, 1.2Mb floppy disk drive and 60Mb streaming tape drive. The Model II features a 72Mb hard disk and costs \$15140.00. The Model III has 40Mb of hard disk and 1664k of main memory and retails for \$23662.00. With

1664k of memory and a 72Mb disk the Model IV retails for \$28140.00.

CPU: **80286**

Op. Sys.: **ITT DOS 3.1 or Xenix V.5**

Memory: **640 - 1664k**

D'tte: **1.2Mb**

Hard Disk: **40Mb**

Display Format: **25 x 80**

No. Function Keys: **10**

Ports: **Parallel and RS232**

Price: **\$12161.00 including tax**

Supplier: **Standard Telephones & Cables - Business**

Labtam 3015/V32

Multi-user (8 - 32 users) minicomputer system with Unix O/S., Ethernet networking with VAX and PC are available. Exported worldwide for DP, CAD/CAM, and technical computing applications. Fully Australian designed and manufactured. Foreign languages including various European and Chinese are supported.

CPU: **NS 32332-15**

Op. Sys.: **Unix System v.3**

Memory: **2000 - 12000k**

D'tte: **800k**

Hard Disk: **71Mb - 2.0Gb**

Display Format: **800 x 300 x 2**

graphics, **25 x 80**

Monitor: **14" monochrome, 14" colour, 19" colour**

No. Function Keys: **22**

S'ware incl.: **Unify, Today-4GL, Austec-Cobol, Labcad (Cad/Cam), etc.**

Ports: **Parallel and RS232**

Price: **\$24000.00 plus O/S.**

Supplier: **Labtam Limited**

Labtam 3215/V32

Multi-user (16 - 32 users) minicomputer system with Unix O/S., Ethernet networking with VAX and PC are available. Exported worldwide for DP, CAD/CAM and technical computing applications. Fully Australian designed and manufactured. Industry standard 1600/3200 BPI magnetic tape is included. Foreign languages including various European and Chinese are supported.

CPU: **NS 32332-15**

Op. Sys.: **Unix system v.3**

Memory: **2000 - 12000k**

D'tte: **800k**

Hard Disk: **450Mb - 2.0Gb**

Display Format: **800 x 300 x 2**

graphics, **25 x 80**

Monitor: **14" monochrome, 14" colour, 19" colour.**

No. Function Keys: **14**

S'ware incl.: **Unify, Today-4, Austec-Cobol, Labcad (Cad/Cam) etc.**

Ports: **Parallel and RS232**

Price: **\$78000.00 plus O/S.**

Supplier: **Labtam Limited**

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North Star Dimension & BCS Series

The Dimension is a true multi-user system yet maintains compatibility with IBM PC/XT/AT systems. It runs under Novell Netware and 3COM Ethernet. It allows the sharing of data and expensive peripherals yet keeps the per user cost well below that of stand alone systems when networked and is faster in operation. Winner of best hardware system at the PC Show it has now had many new features added.

CPU: 80186, 80286, 8088-2

Op. Sys.: PC/MS-DOS

Memory: 512 - 640k

D'tte: 360k

Hard Disk: 240Mb max, 15Mb min

Display Format: 80 x 25

Monitor: One per workstation

No. Function Keys: 10

Ports: Parallel and RS232

Price: Price depends on configuration.

Supplier: New Dimension Computers Pty Ltd

Quattro Small Business Computer 08

Quattro is a multi-user, multi-tasking

networked or stand alone small business computer. Supports 6 users in stand alone or 255 x 6 networked. Supports x25 and SNA protocols for use in wide area networks. A tape streamer and three external disks can be attached using their own ports.

CPU: 8086

Op. Sys.: CDOS 3.1S or 4.1B

Memory: 256 - 1000k

D'tte: 760k

Hard Disk: 50 - 150Mb

No. Function Keys: 10

Ports: RS232

Price: \$6500.00 to \$11500.00

Supplier: I C L

Quattro Small Business Computer 16

Multi-user, multi-tasking networked or stand alone small business computer. Six users in stand alone, 255 x 6 networked. Supports x25 and SNA protocols for use in wide area networks. Three external disk drives and one tape drive can be attached using their own ports.

CPU: 80286

Op. Sys.: CDOS 3.1S or 4.1B

Memory: 1000 - 5000k

D'tte: 760k

Hard Disk: 50 - 150Mb

No. Function Keys: 10

Ports: RS232

Price: \$10500.00 to \$13500.00

Supplier: I C L

Sanyo-Icon MPS020

A micro-mainframe model based on Motorola 68020 processor with parallel architecture. System supports both Pick/DOS/Unix O/S concurrently with up to 6 x 68020 processors on maximum configuration.

CPU: 68020 (3 processor)

Op. Sys.: DOS, Pick, Unix concurrently

Memory: 2000 - 10000k

D'tte: 1.2Mb/DOS

Hard Disk: 70 - 700Mb

No. Function Keys: 10

Price: \$20000.00

Supplier: Sanyo Office Machines Pty Ltd

Synax SY-200 Series

The Synax multi-user system is a multi-processor super-micro that can also function as a PC file server. This cost-effective, high-performance system offers flexible upgrade paths,



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- 16-bit 80286 CPU 6-layer PCB (6mhz/ 8mhz)
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- Monographics or Colorgraphics card
- Serial/Parallel adaptor
- Fixed disk and diskette adaptor
- Single 1.2Mbyte floppy disk drive
- Optional 360K floppy disk drive
- 20Mbyte built-in hard disk
- 195 watts power supply
- 84 Keys Keyboard
- Licensed Bios
- Physical Dimensions: 356mm x 405mm x 140mm

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- 16-bit V20 CPU 4-layer PCB (4.77mhz/7.33mhz)
- 640K Ram on board
- Eight expansion slots
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- Optional 2nd serial port
- Real time clock/calendar with battery back-up
- Joystick adaptor
- Two 360K floppy disk drives
- Optional built-in 3.5 inch 20MB hard disk drive
- Monographics and Colorgraphics card
- 135 watts power supply
- 84 Keys Keyboard
- Licensed Bios

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CPU: **80186/Z80**

Op. Sys.: **TurboDOS**

Memory: **64 - 30000k**

D'tte: **360k - 1.2Mb**

Hard Disk: **20 - 200Mb per drive**

Display Format: **80 x 26; 132 x 44**

Monitor: **Optional**

No. Function Keys: **20**

S'ware incl.: **Utilities only**

Ports: **Parallel and RS232**

Price: **\$10000.00 to \$80000.00**

Supplier: **Synax Systems Pty Limited**

Unisys Series 5000 Model 30

The Unisys 5000/30 is a high performance entry level multi-user system for up to 16 users. It is ideal as a distributed office processor for office automation or other job specific applications.

CPU: **M68020**

Op. Sys.: **Unix System 5 release 2**

Memory: **1000 - 8000k**

D'tte: **1Mb**

Hard Disk: **48 - 140Mb**

Display Format: **Mono**

No. Function Keys: **20**

S'ware incl.: **C Compiler, Fortran 77, Communications software**

Ports: **Parallel and RS232**

Price: **\$29000.00**

Supplier: **Unisys**

Unisys Series 5000 Model 50

The Unisys 5000/50 is a powerful fully functional multi-user office system. It supports up to 32 users with

large storage expansion capability. It also offers extensive host connectivity, providing unparalleled functionality and price/performance.

CPU: **M68020**

Op. Sys.: **Unix System 5 release 2**

Memory: **1000 - 16000k**

D'tte: **1Mb**

Hard Disk: **46Mb - 2Gb**

Display Format: **Mono**

No. Function Keys: **20**

S'ware incl.: **C Compiler, Fortran 77, Communications software**

Ports: **Parallel and RS232**

Price: **\$41000.00**

Supplier: **Unisys**

Universe Supermicro

The Universe Supermicro is a multi-user, multi-tasking computer that is totally upgradeable and expandable. Universe is ideal as a network engine, linking together IBM PC's or clones, and terminals. Under Concurrent DOS the user can access several related or unrelated tasks via a single key stroke. AED has an inhouse engineering department for specialised solutions. The Universe comes with full 12 months on site warranty.

CPU: **80286/Z80H**

Op. Sys.: **Concurrent DOS, MPM86,**

CP/M86, PC/MS-DOS

Memory: **1000 - 8000k**

D'tte: **1.2Mb 5" or 8"**

Hard Disk: **Up to 300Mb**

Display Format: **80 x 25**

Monitor: **Wyse Terminals WY60**

Ports: **Parallel and RS232**

Price: **\$16000.00 plus**

Supplier: **AED System**

Developments Limited

XE520

The XE520 is a large shared resource processor for any BTOS system. Each cabinet has a maximum of six processors. The system will support 64 BTOS workstations. There is the option to add additional hardware and enable the XE520 to operate under Unix. The Application Processor II is based on the Motorola 68020 and supports 6Mb of memory for the APII. A maximum of 128 Unix users are supported.

CPU: **Multiple 80186**

Op. Sys.: **BTOS**

Memory: **786k**

Hard Disk: **6Gb**

Ports: **Parallel**

Price: **P O A**

Supplier: **Unisys**

Zilog System 8000/32

The system 8000/32 is a 32-bit, multi-user, supermicro computer whose architecture is optimised for the Unix operating system and use for business, industrial and scientific applications. The system supports up to 58 users, and 7 printers. Business orientated file and record locking ensures problem-free sharing of data between users. Commonly used communication protocols available are; 2780/3780, 3270 and X.25 standard ethernet.

CPU: **32100WE**

Op. Sys.: **AT+T Unix System V**

Memory: **4000 - 16000k**

Hard Disk: **4 x 377Mb**

Ports: **Parallel and Serial**

Price: **\$79000.00**

Supplier: **Zilog Computers Australia**



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Data Computer

A lightweight (1.1kg) computer running an MS-DOS compatible operating system for people who don't work at a desk. Power is provided by 3 AA cells (70 hours) with 7 years Lithium backup. Interfaces with any peripheral using RS232 communications at 50 - 38400 baud. Programs are loaded from a PC/XT/AT through the RS232 port. Example applications available on diskette for MS-DOS machines.

CPU: 80C88

Op. Sys.: ND-OS (PC/MS-DOS compatible)

Memory: 256k

Display Format: 24 x 2

Monitor: 5 x 7 dot matrix backlit 2 line x 24 character LCD

Ports: RS232

Price: P O A

Supplier: Discware Computers & Software

Hand Held Computers

Hand held computers are used by some 30000 Australian workers in over 350 company and Government sites usually to capture information and transmit it in from the workplace bypassing central data capture networks. Terminals are light, rugged and programmable. They are very user friendly. Options include printers, barcode pens, real time clock, etc. All units support full two-way, dial-up communications.

CPU: RCA1802/280

Op. Sys.: All custom

Memory: 8 - 1000k

Display Format: 2 x 16 x 8 x 20 CH

No. Function Keys: 24

S'ware incl.: Large base (over 300) Pascal routines

Ports: RS232

Price: Range \$450.00 - \$2500.00

(Average \$1250.00)

Supplier: T.C.G. Group

National Data Computer

A hand held IBM compatible data computer 28 x 12 x 6 cm. 1.1 kg. Aimed at people collecting data in the field.

CPU: 80C88

Op. Sys.: NDOS (compatible with PC/MS-DOS)

Memory: 256 - 640k

Display Format: 2 x 24 LCD

Monitor: LCD display

S'ware incl.: Downloading program.

Ports: RS232

Price: \$5900.00

Supplier: Discware Computers & Software

Organizer II

This hand held computer features a multi-alarm clock, appointment reminder, a calendar, and a large memory. It has powerful programming facilities and optional 8k, 16k, 32k, 64k and 128k Eprom packs, Concise Oxford spelling checker, Finance and Maths programs are available on program packs. The Organizer II plugs into office computers through an optional RS232 port.

Price: P O A

Supplier: RCS Design Pty Ltd

Sharp PC1100

Pocket Computer with continuous memory and printer/cassette expansion socket.

CPU: Custom 4-bit

Op. Sys.: BASIC

Memory: 2 - 8k

Display Format: 16 chars x 2 lines

Monitor: LCD

S'ware incl.: BASIC, Telephone Index,

Memo, Diary

Price: \$204.00 including sales tax

Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC1246/PC1248

Pocket Computer with continuous memory and printer/cassette expansion socket. Available with 8kb of memory installed for \$130.00.

CPU: Custom 4-bit

Op. Sys.: BASIC

Memory: 2k

Display Format: 16 characters

Monitor: LCD

S'ware incl.: BASIC

Price: \$99.00 including sales tax

Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC1360

Pocket Computer with continuous memory, printer/cassette expansion socket and two RAM card slots.

CPU: Custom 8-bit

Op. Sys.: BASIC

Memory: 8 - 64k

D'tte: Option, 128k

Hard Disk: None

Display Format: 24 chars x 4 lines

Monitor: LCD

S'ware incl.: BASIC

Ports: RS232

Price: \$381.00

Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC1403

Pocket Computer with continuous

memory, printer/cassette expansion socket and scientific calculator mode.

CPU: Custom 8-bit

Op. Sys.: BASIC

Memory: 8k

D'tte: Option, 128k

Hard Disk: None

Display Format: 24 characters

Monitor: LCD

S'ware incl.: BASIC, Scientific functions

Price: \$232.00 including sales tax

Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC1421

Pocket computer with continuous memory, printer/cassette expansion socket and financial calculator mode.

CPU: Custom 8-bit

Op. Sys.: BASIC

Memory: 4k

Display Format: 16 characters

Monitor: LCD

S'ware incl.: BASIC, Financial functions

Price: \$232.00 including sales tax

Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC1425

Pocket computer with continuous memory, printer/cassette expansion socket, one RAM card slot, and statistical calculator mode with table processing functions.

CPU: Custom 8-bit

Op. Sys.: BASIC

Memory: 8 - 32k

D'tte: Option, 128k

Hard Disk: None

Display Format: 24 characters

Monitor: LCD

S'ware incl.: BASIC, Statistical functions

Ports: RS232

Price: \$329.00 including sales tax

Supplier: Sharp Corporation of Australia Pty Ltd

Sharp PC1460

Pocket computer with continuous memory, printer/cassette expansion socket, one RAM card slot and scientific calculator mode.

CPU: Custom 8-bit

Op. Sys.: BASIC

Memory: 8 - 32k

D'tte: Option, 128k

Hard Disk: None

Display Format: 24 characters

Monitor: LCD

S'ware incl.: BASIC, Scientific Functions

Price: \$347.00 including sales tax

Supplier: Sharp Corporation of Australia Pty Ltd

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Sharp PC1500A

Pocket computer with continuous memory, system bus expansion port, one RAM module slot and realtime clock.

CPU: **Custom 8-bit**

Op. Sys.: **BASIC**

Memory: **8 - 24k**

Display Format: **26 characters**

Monitor: **LCD**

No. Function Keys: **6**

S'ware incl.: **BASIC**

Ports: **Parallel and RS232**

Price: **\$379.00 including sales tax**

Supplier: **Sharp Corporation of Australia Pty Ltd**

Sharp PC1600

Pocket computer with continuous memory, system bus expansion port, analogue to digital converter, high speed serial port, two RAM module slots and realtime clock.

CPU: **Z80 and Custom 8-bit**

Op. Sys.: **BASIC**

Memory: **16 - 80k**

D'tte: **Option, 128k**

Hard Disk: **None**

Display Format: **26 chars x 4 lines**

Monitor: **LCD**

No. Function Keys: **6**

S'ware incl.: **BASIC**

Ports: **Parallel**

Price: **\$772.00 including sales tax**

Supplier: **Sharp Corporation of Australia Pty Ltd**

Sharp PC2500

Lap Computer with continuous memory, built-in four colour printer/plotter, built in cassette interface and one RAM card slot.

CPU: **Custom 8-bit**

Op. Sys.: **BASIC**

Memory: **5 - 21k**

Display Format: **24 chars x 4 lines**

Monitor: **LCD**

No. Function Keys: **8**

S'ware incl.: **BASIC, Telephone Index, Table Handling, Graphics**

Ports: **RS232**

Price: **\$650.00 including sales tax**

Supplier: **Sharp Corporation of Australia Pty Ltd**

Tandy 102

This 1.3kg computer runs on four AA batteries for up to 20 hours at a time. It has interfaces for bar code readers, tape storage of data and programs, parallel printer port and an RS232 serial communications port. It comes with 5 programs in ROM. You can even write

your own programs in BASIC.

CPU: **80C85 CMOS**

Op. Sys.: **BASIC**

Memory: **24 - 32k**

Display Format: **40 x 8 char**

No. Function Keys: **8**

Ports: **Parallel and RS232**

Price: **\$999.00**

Supplier: **Intertan**

Tandy 200

A very portable (2kg) computer with Multiplan permanently resident in ROM. Uses tape backup via a special tape interface. CMOS technology means the 200 can run on 4 AA batteries for up to 16 hours. An optional AC/DC charger/adaptor is available. Internal rechargeable nickel/cadmium batteries will retain memory for up to 15

CPU: **80C85 CMOS**

Op. Sys.: **BASIC**

Memory: **24 - 72k**

Display Format: **40 x 16 char, 240 x 128 graph**

Monitor: **Flip up LCD**

No. Function Keys: **8**

S'ware incl.: **Multiplan BASIC in ROM, Calendar, Address & Phone Dir.**

Ports: **Parallel and RS232**

Price: **\$1399.00**

Supplier: **Intertan**

300 GTA

Ergonomically designed to meet most stringent requirements of government and unions. High resolution display, ISO standard escape sequences and REGIS compatible graphic with private enhancements. Window manager with mouse unit is available as an option. Printer out is standard. Entire keyboard including 22 functions are programmable. Foreign language character sets are programmable. Machines: **3000 GTA with VT220 styled keyboard**

Screen: **14" Colour and Monochrome**

Resolution: **800 x 300 or 800 x 600**

Char's per line: **80, 132**

Price: **P O A**

Supplier: **Labtam Limited**

B25 Workstations

The B25 family of multifunction workstations do not require additional hardware for communications because of the power

of the operating system.

Price: **P O A**

Supplier: **Unisys**

B27

The B27 is a low cost workstation for a B25 cluster of workstations. It runs on BTOS, has 1 Centronics and 2 RS232 interfaces, has a minimum memory of 512k.

Price: **P O A**

Supplier: **Unisys**

CRX1200

The CRX1200 has built in -5 to +15 degrees tilt, parallel or serial printer port and eight fully programmable function keys. They can be used with the Sanyo Micron multiuser system but a full range of emulations is available. Sanyo supply these emulations on the EPROM in the CRX1200.

Screen: **12" Monochrome**

Resolution: **24/25**

Char's per line: **80**

Price: **\$995.00 - \$1995.00**

Supplier: **Sanyo Office Machines Pty Limited**

Corvus Diskless Workstation

The workstation is Corvus' network-ready IBM PC compatible workstation. AT compatible keyboard. 14" tilt and swivel monochrome monitor. Hercules compatible graphics card. Corvus network interface.

Machines: **IBM PC & compatibles**

Screen: **14" Monochrome**

Price: **\$2900.00**

Supplier: **Horizon Computer Corporation**

Dacos VA220 Video Display Terminal

The Dacos VA220 acts as an interface be-

tween the user and the host system. The keyboard has five special functions keys, 15 programmable function keys, an editing keypad with bidirectional control and an auxiliary keypad. It has five character sets, three major operating states and four selectable operating modes.

Machines: **DEC VT200, VT52 and VT100**

Screen: **14" Monochrome**

Char's per line: **24 x 80, 24 x 132**

Price: **\$945.13 including tax**

Supplier: **Data Cable**

Dacos VA3178

The Dacos VA3178 display terminal is a desktop data entry terminal that features: IBM compatibility, large screen, security keylock, 12-key numeric pad and reliability. Screen has tilt and swivel movement that can display 80 cpl and 24 lines per screen, plus one row of system status information.

Screen: **14" Monochrome**

Resolution: **24**

Char's per line: **80**

Price: **\$1009.41 including tax**

Supplier: **Data Cable**

Digital VT220 Terminal

Full VT100 and VT220 performance, available in white, green or amber on black, streamlined keyboard with 30mm key height. Normal reverse video, blinking, underlining and bold attributes, detachable keyboard, non-glare screen, 7 x 9 dot matrix character font, multi-national line drawing and downline loadable character sets, 15 programmable function keys, screen saver and selective erase.

Screen: **12" Monochrome**

Resolution: **24**

Char's per line: **80/132**

Price: **\$1550.00**

Supplier: **Mitsui Computer Limited**

Digital VT240 Graphics Terminal

Available in white, green or amber. Supports Tektronic 4010/4014 protocols and Digital's remote graphics instruction set. Operates in 3 modes: VT52, VT100 and VT200 (7 or 8-bit control). All except VT52 support standard ANSI function. It has 2 graphics planes, to achieve 4 levels of grey. All display attributes on a character-by-character basis, 25 programmed function keys, additional 15 programmable keys provided, comms speed to 19200 baud, EIA and 20 MA interfaces, screen saving.

Screen: **12" Monochrome**

Resolution: **800 x 240 pixels**

Char's per line: **80/132**

Price: **\$4160.00**

Supplier: **Mitsui Computer Limited**

Digital VT241 Col Graphics Terminal

Supports Tektronics 4010/4014 protocols and Digital's remote graphics instruction set. It can operate in 3 modes: VT52, VT100 and VT200 (7 or 8-bit control). All except VT52 support standard ANSI function. It displays 4 colours selectable from a palette of 64. It is equipped with RGB output for auxiliary colour monitors, serial printer port, comms speed to 19200 baud, nonvolatile memory stores feature settings, ETA and 20 MA interfaces, local echo selectable, composite video output for auxiliary monitors, universal power supply and screen saver.

Screen: **14" Colour**

Resolution: **800 x 240 pixels**

Char's per line: **80/132**

Price: **\$6085.00**

Supplier: **Mitsui Computer Limited**

Esprit 6110+ terminal

14" green video screen with full tilt and swivel. Esprit II adds Viewpoint, Regent 25, ADM 3A, Hazeltine 1500 emulations.

Screen: **14" Monochrome**

Resolution: **25**

Char's per line: **80**

Price: **\$1085.00**

Supplier: **Mitsui Computer Limited**

Esprit 6310 Terminal

14" green or amber screen with full tilt and swivel. 22 non volatile programmable function keys. Emulations cover teletype 925 and 910 plus, ADDS Regent 25 and Viewpoint, Esprit II, Hazeltine 1500 and ADM 3A.

Screen: **14" Monochrome**

Char's per line: **80**

Price: **\$1395.00**

Supplier: **Mitsui Computer Limited**

Esprit Opus 2 Terminal

14" high contrast flat screen in green or amber with award winning touch tilt and swivel enclosure. Emulations cover Wyse 50, Teletype 910/920/925, ADDS Viewpoint and Hazeltine 1500. Function key labelling by flipstrips plus a pop-up calculator assist ease of use.

Screen: **14" Monochrome**

Char's per line: **80/132**

Price: **\$1190.00**

Supplier: **Mitsui Computer Limited**

Esprit Opus 220 Terminal

14" high contrast flat screen in green or amber with award winning touch tilt and swivel enclosure. Standard 2 pages with flip strips for multiple application function key labelling. In addition to VT220 emulation the Opus 220 has express windows allowing system to develop window presentations.

Screen: **14" Monochrome**

Char's per line: **80/132**

Price: **\$1350.00**

Supplier: **Mitsui Computer Limited**

Esprit Opus 4 Terminal

14" high contrast flat screen in green or amber with award winning touch tilt and swivel enclosure. Emulates ESP 6310, Wyse 50, TVI 950/925/920/910, ADDS Viewpoint ADM3A, VT52. Virtual terminal on with a second computer, without disturbing task in process through primary port. Simultaneous split screen operation from both ports is a feature.

Screen: **14" Monochrome**

Char's per line: **80/132**

Price: **\$1850.00**

Supplier: **Mitsui Computer Limited**

Ether Station

The Ether Station is ready to plug in and use on existing 3 Com networks. It has a monochrome screen with high resolution Hercules compatible graphics, a 640k system memory with local ports and battery backup clock and local diskette storage (optional hard disk storage).

Screen: **Monochrome**

Price: **\$1995.00 excluding tax**

Supplier: **Microhelp Computers**

GDT 6160

The GDT 6160 terminal combines numerous user selectable emulations, enabling the terminal to be compatible with most general purpose host systems. Importantly the GDT 6160 provides compatibility to both ASCII and ANSI environments in both 80 and 132 column display formats. Emulations are: ASCII mode - Wyse WY50, Lear Siegler ADM-31, Teletype 910/920/925, ADDS Viewpoint, Hazeltine 1500 and extended ASCII features. ANSI mode - DEC VT52/100/102 and extended ANSI standard/private commands.

Screen: **14" diagonal**

Resolution: **384 x 800**

Char's per line: **80/132 cols x 24/27 lines**

Price: **\$999.00 including tax**

Supplier: **Datronics Corporation Ltd**

HP 2392A Display Terminal

Machines: ANSI compatible
Screen: 12" Monochrome
Char's per line: 80
Price: \$2700.00
Supplier: Hewlett Packard
Australia Limited

HP 2393A Graphics Terminal

Machines: ANSI compatibles, 4010/4014
Screen: 12" Monochrome
Char's per line: 80-160
Price: \$4131.00 excluding tax
Supplier: Hewlett Packard
Australia Limited

HP 2394A Data Entry Terminal

Machines: ANSI compatible
Screen: 12" Monochrome
Char's per line: 80
Price: \$3668.00 excluding tax
Supplier: Hewlett Packard
Australia Limited

LINK MC1 (PCterm)

The MC1 PCterm provides a low cost ergonomically styled display which allows a PC/XT/AT to be expanded to accommodate additional local users. It is compatible with popular slave boards and multiuser software for the PC market. It provides 14" screen in green or amber, full 256 IBM character set, detachable IBM AT style keyboard.

Machines: IBM PC/XT/AT & compatibles
Screen: 14"/35cm
Resolution: 26
Char's per line: 80
Price: \$958.00
Supplier: MPA Pty Limited

LINK PCterm

The LINK PCterm is an aesthetic ergonomic terminal which allows a PC to be expanded to accommodate additional local users. It is compatible with most popular PC/XT/AT share boards available including Alloy, PC Technology, Advanced Digital Corporation, Computone, Companion Technology and software link. In addition to the native IBM mode the PCterm emulates WY50 and Televideo 925. It incorporates 14" tilt/swivel screen and

detachable IBM AT style keyboard.
Machines: Unix, Xenix, PC Multi-link, Alloy PCslaves
Screen: 14"/35cm Monochrome
Resolution: 26
Char's per line: 80 or 132
Price: \$1142.00 green or amber
Supplier: MPA Pty Limited

Link 125

The Link 125 is designed to complement any office environment. Its tilt/swivel crisp display and low profile high quality keyboard provides users with programmable function keys, embedded or non-embedded attributes, 8 x 13 character matrix in a 9 x 14 field and bidirectional host and printer ports. WY50, Televideo 925/910, Lear Siegler ADA3A/ADM5, ADDS Viewpoint, A1, A2, 60 emulations. Optional amber display or 1500 additional characters of NUM function key memory.
Machines: Unix, Xenix, Turbodos
Screen: 14"/35mm Monochrome
Resolution: 25
Char's per line: 80 or 132
Price: \$1167.00 green
Supplier: MPA Pty Limited

Link 220

The Link L220 is a high quality, beautifully designed alphanumeric display terminal which offers compatibility with the DEC VT220 product line. It offers two pages of memory with expansion up to six available. The keyboard is DEC VT220 style, with four status LED's and includes 38 programmable function keys useable in all emulation modes. It features two bidirectional communication ports supporting speeds up to 38.4kbps. The L220 will operate with existing applications designed for the VT220.

Machines: Unix, Xenix, DEC
Screen: 14"/355mm Monochrome
Resolution: 26
Char's per line: 80 or 132
Other Req.: RS232 Interface
Price: \$1228.00
Supplier: MPA Pty Limited

Link MC3

The MC3 is an intelligent terminal on which incorporates choice of standard ASCII, IBM PC/AT and IBM RT/PC enhanced keyboards. The 14" diagonal display is available in P31 green, P24 amber and P167 soft white. It includes two RS232 serial ports and one centronics parallel printer port. It has compatible modes for LINK 125, PC TERM, WY50, VT100/ANS 3.64, ADM3A, ADM5, Televideo 925, 910 and ADDS View-

point A1, A2, 60.
Machines: Unix, Xenix, Turbodos
Screen: 14"/350mm Monochrome
Resolution: 44 or 26
Char's per line: 80 or 132
Other Req.: Serial RS232 interface
Price: \$1179.00
Supplier: MPA Pty Ltd

Master Flonet Terminal

The Acorn Master series run MOS. This terminal uses a 65C12 processor running at 2MHz has 64k RAM which is expandable to 128k providing the networking capability for these machines.
Machines: Acorn Master series
Screen: Colour and Monochrome
Char's per line: 40 or 80
Price: \$1113.00 excluding tax
Supplier: Barson Computers Australasia Pty Limited

Master Flonet Terminals

The Acorn Master series run MOS. The terminal uses a 65C12 processor running at 2MHz has 64k RAM which is expandable to 128k providing the networking capability for these machines.
Machines: Acorn Master Series
Screen: Colour and Monochrome
Char's per line: 40 or 80
Price: \$1113.00
Supplier: Barson Computers Australasia Pty Limited

QDS 1000 Image Processing Terminal

The QDS1000 image processing terminal is Australian designed and manufactured. It can be connected to a wide range of computers (particularly Dec Vax) to give high performance image processing. The QDS1000 is particularly suited to remote sensing applications and is designed to support the internationally known, Australian developed DISIMP image processing software suite. The functionality of the terminal is programmable.

Machines: PDP-11, VAX, HP1000F, CMBER 76
Screen: 19"
Resolution: 640
Char's per line: 768 pixels
Price: \$19000.00 upwards
Supplier: Quentron Digital Systems

Sun Workstation

The Sun-3 architecture incorporates industry-standard, high performance subsystems. These keep costs down, and magnify

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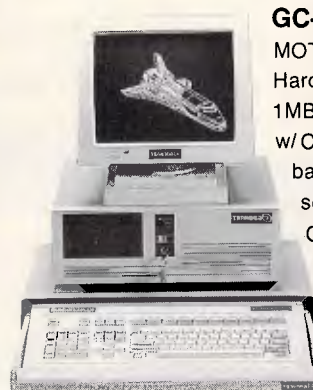
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GC-2002 MINI PC/AT set.

MOTHERBOARD: 6/10, 8/10, 8/12 MHz
Hardware/software switchable; 256K to 1MB memory; System Clock/Calendar w/ CMOS RAM buffer and battery back-up; 0 Wait/1 Wait state selectable; operation manual
CASE: Dimension 42 x 43.7 x 15.7cm
TURBO MODE indicated by LED display; Front panel w/keylock, hardware reset; Power on light, HDD & TURBO status light

GC-100T TURBO PC/XT set

640K TURBO Mainboard(4 layer, 8 MHz)
CPU: 8088-2; Two FDD; M.G.P Card; Multi I/O card; 150W Power Supply; XT/AT keyboard with "CHERRY" key switch; CASE is AT type smaller in size, same special features as MINI AT Case



GC-2001 PC/AT set

CPU: 80286-8, 1MB RAM; 1.2MB FDD; 20MB HDD; FDD/HDD Control card; M.G.P Card; 200W Power supply; XT/AT Keyboard with keyboard drawer to conserve space



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the workstation capabilities. Besides UNIX, Sun-3 standards include a true 32-bit VMEbus, the 32-bit MC68020 CPU, the MC68881 floating-point compressor, and Ethernet hardware, all efficiently built on a single Eurocard board. Sun-3 workstations employ TCP/IP networking protocols and use numerous graphics standards, such as Core, GKS and CGI as well as standard languages, such as C, FORTRAN-77, Pascal, Common Lisp and Modula-2.

Machines: **Motorola 68020**

Screen: **1152 x 900, 19" display**

Price: **P O A**

Supplier: **Sun Computer Australia**

Tatung TUT7210 Terminal

The TUT7210 Terminal is compatible with Televideo TU 924, ADM 31/3A. It has 16 non volatile keys, a dark tinted CRT and a speed of 75-19200 bps.

Screen: **14" Monochrome**

Char's per line: **24 x 80 25th status line.**

Price: **\$1299.00 green, \$1349.00 amber (excluding tax)**

Supplier: **IPL Datron**

Tatung TUT7220 Terminal

Compatible with DEC VT220 VDT Protocols: DEC VT 200, 8 ht controls; DEC VT200, 7 ht controls; DEC VT100 with VT100/VT101/VT102/VT220 ID; DEC complete VT100; DEC VT52. 15 non volatile user defined keys. Dark tinted CRT. 75-19200 bps speed.

Screen: **14" Monochrome**

Char's per line: **24 x 80, 24 x 132 25th status line**

Price: **\$1399.00 excluding tax (green), \$1449.00 (amber)**

Supplier: **IPL Datron**

Tatung TUT7225 Terminal

The TUT7225 is VT131, VT102, VT100 and VT52 compatible. It has 16 non volatile keys, dark tinted CRT and a speed of 75-19200 bps.

Screen: **14" Monochrome**

Char's per line: **24 x 80/24 x 132. 25 status line**

Price: **\$1139.00 green, \$1189.99 amber (excluding tax)**

Supplier: **IPL Datron**

Tatung TUT7235 Terminal

The TUT7235 is compatible with the Data General D211, D210, D200 and also the DEC VT102, VT100 and VT 52. It has 16 non volatile keys, dark tinted CRT and a speed of 50-38400 bps.

Screen: **14" Monochrome**

Char's per line: **24 x 80/24 x 132 25th status line**

Price: **\$1299.00 green, \$1349.00 amber (excluding tax)**

Supplier: **IPL Datron**

Tatung TUT7261 Terminal

The TUT7261 emulates Televideo TUI 912/920/925/910+, LSI ADM3a/ADMS, IBM 3101 model 881, ADDS Viewpoint/A2, Wyse WY50, Hazeltine 1500, and DEC VT 131/102/100/52. It is compatible with ANSI and ASCII VDT protocols, has 12 non volatile keys (24 with shift), a dark tinted screen and a speed of 50-38400 bps.

Screen: **14" Monochrome**

Char's per line: **25 x 80/25 x 132**

Price: **\$1449.00 green, \$1499.00 amber (excluding tax)**

Supplier: **IPL Datron**

WYSE WY30

The Wyse WY30 is a low-cost entry-level terminal with 14" crisp flat screen. It offers a high quality detachable keyboard, with 41 programmable keys in a layout of 83 keys. It provides WY50, ADDS Regent 25, ADM3A/31, Televideo 910 and 92JE emulations. An optional tilt/swivel base and height adjustable arm are available.

Machines: **Unix, Xenix, Turbodos**

Screen: **14"/35cm Monochrome**

Resolution: **26**

Char's per line: **80 characters**

Other Req.: **Serial interface**

Price: **\$910.00**

Supplier: **MPA Pty Limited**

WYSE WY60

WYSE WY60 is a powerful and versatile terminal designed to meet existing needs in the ASCII/ANSI/PC terminal markets. With a flat display in green, white or amber it offers a choice of WY60 ASCII, WY60 ANCI, IBM PC/AT, IBM enhanced PC and IBM 316X - style keyboards. It includes Wyseworks featuring built-in clock/calendar calculator and ASCII table combination. The WY60 is ideal for any Unix or Xenix implementation. It is also ideal for PC share multiprocessor environments and for software multiuser alternatives such as multilink.

Machines: **Unix, IBM PC/XT/AT & compatibles**

Screen: **14"/35cm Monochrome**

Resolution: **26/44**

Char's per line: **80/132**

Other Req.: **RS232 serial interface**

Price: **\$1556.00**

Supplier: **MPA Pty Limited**

WYSE WY85

Wyse WY85 offers compatibility with the DEC product line. It is available in either green or amber phosphor screen. With a large 14" screen on a tilt/swivel base the WY85 provides a high quality, stylish alternative to the DEC VT220 product. The detachable keyboard is DEC VT220 style. The WY85 will operate with existing applications originally designed for the DEC VT220.

Screen: **14"/35cm diagonal Monochrome**

Resolution: **26 lines x 80 columns**

Char's per line: **80 or 132**

Other Req.: **RS232 serial interface**

Price: **\$1502.00**

Supplier: **MPA Pty Limited**



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*Hypertec featured in the first four places in no less than three hardware categories in the 1986 PC World Class Awards.

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Boards

The electronics of a computer is mounted almost totally on printed circuit boards. The main board (motherboard) carries the central processor (cpu), the main memory (on board RAM) and the keyboard and screen control functions. Electronics for any extra functions must somehow be attached to the motherboard. Many computers provide internal sockets (expansion slots) for specially designed boards to plug into. This provision is known as open architecture.

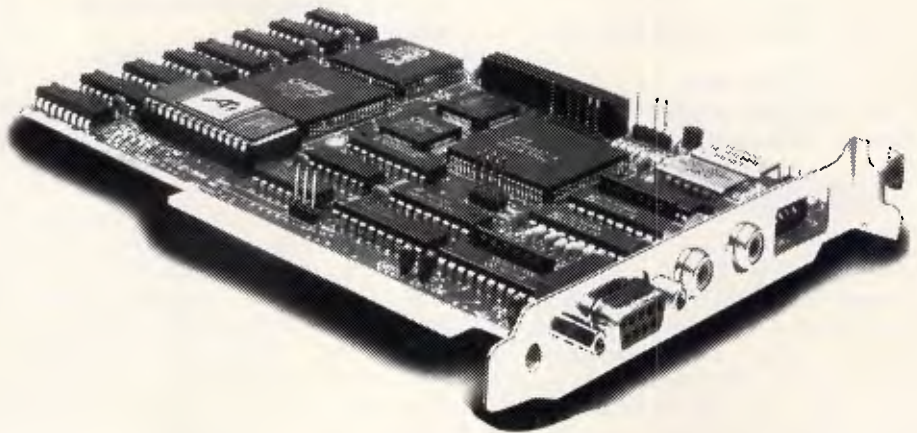
One very common function provided by these add on boards is extra memory. The Memory Expansion Board section contains about 30 listings all covering boards which are exclusively devoted to

this purpose. Unfortunately there is an upper limit to how much memory any processor can access, so you cannot add memory indefinitely.

The circuitry on the motherboard provides the basic screen control. It sends information from the keyboard there, forms the characters and provides scrolling, cursor control and other familiar screen functions. To display graphics, more sophisticated control of the screen is necessary than to display characters. Graphics adaptors have become very common and many suppliers now include them in the price of the computer, a few formats having become established standards. The Colour Graphics Adaptor (CGA) displays 640 x 200 pixels in 2 colours or 320 x 200 in 4 colours. The Enhanced Graphics Adaptor (EGA) displays 640 x 350 pixels in 4 or 16 colours (depending on the memory and the type of board) and many manufacturers' EGA cards will also display CGA formats.

The Hercules Graphics Card displays 720 x 348 pixels in black and white. There are variations on the basic Hercules Card that provide colour EGA and CGA formats as well. While these are the most common display formats there are a multitude of others, some offering resolutions up to 1024 x 800 pixels.

Naturally the monitor has to be capable of displaying the information you send to it. Many suppliers now bundle a graphics card and a monitor together. If you are thinking of buying a



monitor you should keep this in mind.

Most applications and operating systems date everything you do with a date or time stored in the system. Each time you turn the system on you have to enter the date and time unless a battery powered clock is installed to keep track while the computer is turned off. Boards providing this function are listed in the clocks/calendars section.

There are a number of boards which could provide faster operation for your computer. Most of these have a microprocessor on them which is faster than the one on the motherboard and which takes over all or some of the cpu's functions.

Boards can also be purchased to provide a totally different processor so that your computer can run the operating system and applications designed for a quite different computer to your own. These boards have been collected together in the Accelerator/CPU section of this chapter.

Electronics to drive hard disks or other storage devices are often supplied with the disk drive itself. But this is not

always the case and manufacturers have also made boards for driving more than one disk for installing drives not designed for the computer. An example of this is a board to install an AT compatible 1.2Mb floppy in an XT. These boards appear in the disk controllers section of the chapter.

For a computer to communicate with external devices some sort of link between the two machines is needed.

This is usually provided via plugs (ports) in the rear of the machine. Some computers have ports directly attached to the motherboard. They will probably be horizontally positioned near the bottom at the rear of the machine.

Boards carrying extra ports can be inserted should you need them. Some of these are specifically for printers. These appear in the Printer Adaptor section of this chapter. Other ports for communicating with a multitude of devices (joysticks, modems) or Local Area Networks appear in the Serial/Parallel Ports section. There are also boards designed to interface with specific devices. Many of these provide interfaces for converting various electrical signals for processing on the computer.

Prototyping boards allowing electronics designers to build and test their own boards appear in the Prototyping section and a range of boards including some voice controllers and security devices appear in the general section.

Boards which provide more than one of the functions outlined above appear in the opening section of this chapter. There is a very competitive market in multifunction boards, most providing a fairly standard combination of extra memory, ports, serial/parallel ports and a battery backed clock/calendar. Unless you have a specific need for a lot of ports or memory expansion, one of these boards may offer an inexpensive solution to increasing the capability of your system.

Allaboard

IDEA's Allaboard offers a choice of graphics up to 2Mb expanded memory (EMS), hard disk controller, serial and parallel ports and clock. Allaboard utilises the latest technology and custom chips to provide all the basic functions for the IBM in a single slot.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$1008.00 to \$1845.00**

Supplier: **IDEAssociates Australia**

Allaboard 286

Allaboard 286 offers up to 16Mb of memory, IBM EGA or mono/colour graphics, hard disk controller, serial and parallel ports, and a clock. Allaboard 286 utilises surface mount technology to provide all the basic functions for the IBM in a single slot. Specifically designed for applications using Xenix or v 5.0 MS-DOS on 80286 based machines.

Price: **P O A**

Supplier: **IDEAssociates Australia**

Atlantis 3Mb Multifunction card

The Atlantis 3Mb multifunction card is a memory and multifunction card for the IBM PC/AT or compatibles. It features a serial port, parallel port and sockets for the 1.5Mb RAM. The memory can be expanded to 3Mb using an optionally available piggy back card.

Machines: **IBM PC/AT & compatibles**

Price: **\$570.00 including tax**

Supplier: **Atlantis International Computers**

Atlantis Multifunction Card

The Atlantis Multifunction Card is a full function card designed to fit a normal PC/XT. The card includes a parallel printer port, serial port, joystick port and rechargeable battery to power the clock/calendar. A second serial port can be fitted at extra cost.

Machines: **IBM PC/XT & compatibles**

Price: **\$199.00 including tax**

Supplier: **Atlantis International Computers**

Atlantis Multifunction Card with FDDC

The Atlantis Multifunction Card with FDDC is, as the name implies, a full function card which includes a floppy disk

drive controller. The card features a parallel printer port, serial port, joystick port and rechargeable battery to power the clock/ calendar. A second serial port can be fitted and a floppy disk drive controller is included on the card.

Machines: **IBM PC/XT & compatible**

Price: **\$215.00 including tax**

Supplier: **Atlantis International Computers**

Eastern Micro Electronics

Computer Security / Software Protection

Codercard IBM PC (and compatibles) security adaptors provide various levels of security for stand-alone, PC networks or PC to mainframe applications. The CPS-200 and the CPS-210 adaptors are board level implementations, performing PC boot protection - no system boot or use of protected software is allowed unless the user can enter a valid password, controlled by the security manager. The CPS-200 has the added features of file encryption, using the data encryption standard. See also the CPS-300 in peripherals.

Price: **P O A**

Supplier: **Securicom**

EME Multifunction card

The EME Multifunction card comes in two forms; with no RAM on board or with the full 384k installed. It has facilities for parallel, serial, joystick connections and a clock/calendar facility.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **From \$250.00**

Supplier: **Eastern Micro Electronics**

Hyper-512MF

Features of the Hyper-512MF include 512k of RAM, a serial and a parallel port and a clock/calendar.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **DOS (PC/Microsoft)**

Price: **\$820.00**

Supplier: **Hypertec Pty Ltd**

IDEA Supermax

IDEA Supermax offers up to 4Mb of memory, two serial and one parallel port. IDEA Supermax supports conventional and extended memory, and includes IDEA's menu driven software which features print

pooling, split memory addressing and diagnostics. Supermax EMS supports expanded memory.

Machines: **IBM PC/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$883.00 - \$3260.00 ex tax**

Supplier: **IDEAssociates Australia**

IDEAmax 38u

IDEAmax 38u offers 64 - 384k of memory, and can have: serial port, parallel port, clock or games port as options. All IDEAmax multifunction boards come fully supported with IDEA menu software which includes RAM floppy, print spooler, desk calculator, date/time stamp, diagnostics and many additional programs.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **64k**

Price: **\$366.00 to \$728.00 ex tax**

Supplier: **IDEAssociates Australia**

IDEAmini

A versatile I/O short card for the IBM Portable, PC, XT, AT or PC/3270. IDEAmini has the following options: one or two serial ports, one parallel port, clock. The serial ports can be configured to any of COMs 1, 2 or 3. IDEA's menu driven software is included featuring print spooler, diagnostics and clock software.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$267.00 to \$423.00 ex tax**

Supplier: **IDEAssociates Australia**

M-250 & 250A PC add on cards

M-250 Multi I/O card. Features a parallel printer port, RS232 2 channels serial interface, games adaptor port, real time clock/calendar with battery backup and a simplified version COMY connector (D-9) of RS232C.

Machines: **IBM AT & compatibles**

Price: **\$191.31 including tax**

Supplier: **Data Cable**

M-260, M-260A PC add on card

This M-260 Multifunction card has the same functions as M-250, with additional built-in floppy disk drive controller that allows support of two floppy disk drives. It also has a simplified version (D-9) of RS232C interface for connection to IBM

AT compatibles.

Machines: **IBM PC/XT & compatibles**

Price: **\$239.53 including tax**

Supplier: **Data Cable**

M-40, M-40II, M-40B PC add on cards

The M-40 Monochrome/Graphic/Printer card provides 720 x 348 pixels graphics, 80 x 25 alphanumeric text, a printer and a light pen interface and 64k DRAM of storage. The M-40II adds the elimination of screen flickering while scrolling. The M-40B feature has no graphic or printer port. Machines: **IBM PC/XT & compatibles**
Price: **\$175.24 (M-40), \$200.96 (M-40II), \$136.67 (M-40B) all including tax.**

Supplier: **Data Cable**

Atlantis International Computers

M-40III PC add on cards

M-40III features 720 x 348 pixel graphics, 80 x 25 or 132 x 25 / 132 x 44 text selectable by software, a parallel printer port and light pen interface and provides non-flickering scrolling on screen.

Machines: **IBM PC/XT & compatibles**

Price: **\$226.27 including tax**

Supplier: **Data Cable**

M-640 AF, M-640 CF PC add on cards

M-640 AF 640K features 640k memory expansion, two floppy disk drives controller ports, two channels RS232C serial port, one parallel printer port, a real time clock/calendar with battery backup, a game adaptor port and a simplified (D-9) RS232C Connector interface to attach PC/AT.

Machines: **IBM PC/XT & compatibles**

Price: **\$326.31 including tax**

Supplier: **Data Cable**

MAT-3000 PC add on card

MAT-3000 3Mb multifunction card. Features: 3Mb memory, 256 installed, (fully socketed with parity check), one RS232C Serial port (2nd RS232C port optional), one parallel printer port and one games adaptor port, fully moulded cabling and user friendly documentation.

Machines: **IBM PC/AT & compatibles**

Price: **\$634.89 including tax**

Supplier: **Data Cable**

MAT-8050 PC add on card

MAT-8050 2 Mb multifunction card. Features: 2Mb fully socketed memory with parity check (256k installed), two channels RS232C (2nd optional), one parallel printer port and one game adaptor port. It comes with user friendly documentation.

Machines: **IBM PC/AT & compatibles**

Price: **\$384.17 including tax**

Supplier: **Data Cable**

Macintosh II Video Card & Expansion Kit

Video card for use with the Macintosh II and either the Apple high-resolution monochrome monitor or the AppleColor high-resolution RGB monitor. Provides up to 16 colours (or shades of grey) as standard or up to 256 colours (or shades of grey) with the addition of the memory expansion kit.

Machines: **Macintosh II**

Price: **\$972.00**

Supplier: **Apple Computer Australia**

Overboard

Overboard offers a choice of IBM EGA or mono/colour graphics, serial and parallel ports, plus clock on one board fitting the IBMs short slot. Overboard utilises surface mount technology to offer a short, double-sided board.

Machines: **IBM PC/XT/AT & portable**

Op. Sys.: **PC/MS-DOS**

Price: **\$736.00 to \$1011.00 ex tax**

Supplier: **IDEAssociates Australia**

Persyst BOB/MG Display Adaptor

The BOB/MG is completely compatible with software written for the IBM Colour Graphics Adaptor, supports colour software on colour or mono displays and superior mono graphics and text on mono displays. Other features include a bi-directional parallel printer port and light pen interface.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **Appropriate mono or colour monitor.**

Price: **\$395.00**

Supplier: **Emulex Corporation**

STB Rio Plus 2

The STB Rio Plus 2 expands a PC with up to 5 additional I/O functions and a 384k additional memory (max 576k). It has a parallel port as a standard feature, also two serial ports, one standard, one optional. Other features include interfaces with

modems, serial printers, plotters, mice, a clock/calendar and optional game port. It includes a PC accelerator.

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$525.58 excluding tax; \$595.00 including tax**

Supplier: **Roland Corporation Australia**

Serial Clock Board

Serial clock board with RS232 communications port and real-time clock/calendar.

Machines: **IBM PC/XT, Honeywell EP/XP**

Op. Sys.: **PC/MS-DOS**

Other Req.: **Spare expansion slot.**

Price: **\$237.00**

Supplier: **Honeywell Information Systems**

Ten Plus Card

One card with ten functions including: MDAdaptor, CGAdaptor, RS232 port, Centronics port, games port, dual floppy disk controller and clock calendar.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$379.00**

Supplier: **Micron Computers Australia**

Trident 7 Pak Multifunction Card

Floppy controller supporting 4 drives. Parallel port used as LPT1 or LPT2 or disable single (optional second) serial port used as COM1 or COM2 with host or DTE games port. Clock/calendar with battery backup Ramdisk and spool software.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$173.00 excluding tax**

Supplier: **Trident Computer Industries**

WY430 Graphics Card

WY430 graphics card is a half slot multi-function display adaptor. It supports software written for Hercules graphics card at 720 x 348 pixel resolution. It runs IBM colour graphics software, generating up to 16 colours in 640 x 200 resolution. It supports Plantronics Colour Plus. It also has a text mode to provide 132 columns by 44 lines on a Wyse WY530 display.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Price: **\$538.00**

Supplier: **MPA Pty Limited**

64/256k Memory Expansion Option

The IBM memory may be increased beyond 256k by installing the 64/256k memory expansion option. This option increases the system memory by 64k and is expandable on the card to 256k with three 64k memory module kits. A second memory expansion option can be used to expand the system unit memory from 512k to 640k.

Machines: **IBM PC**

Price: **P O A**

Supplier: **IBM**

64k/80 column extended memory

A memory expansion card to extend the memory of an Apple IIe from 64k to 128k. The card is similar to that supplied by the computer manufacturer and is compatible with all software.

Machines: **Apple IIe**

Op. Sys.: **DOS 3.3, PRODOS**

Price: **\$99.00**

Supplier: **Automatic Ice Co.**

Apple IIGS 1Mb Memory Expansion

Increases memory of Apple IIGS to 1.25Mb.

Machines: **Apple IIGS**

Op. Sys.: **PRODOS**

Memory: **256k**

Price: **\$825.00 including tax**

Supplier: **Apple Computer Australia Pty Limited**

Apple Memory Expansion Kits

The memory expansion kits allow expansion of Macintosh Plus, SE & II main memory. The kits consist of 4 x 256k SIMMS (Single Inline Memory Modules) for the 1Mb kit and 2 x 1Mb SIMMS for the 2Mb kit. By using 2Mb kits Macintosh Plus and SE may be expanded to 4Mb whilst the Macintosh II may be expanded to 8Mb.

Machines: **Macintosh Plus, SE and II**

Price: **\$649.00 for 1Mb, \$1899.00 for 2Mb**

Supplier: **Apple Computer Australia Pty Limited**

Atlantis 512k RAM Card

The Atlantis 512k RAM Card is a

memory expansion card that allows an IBM PC/XT or compatible to be expanded up to a total of 640k RAM. The card can be purchased with memory from 64k to 512k RAM in 8 banks of 64k. The card uses popular 4164 RAM chips.

Machines: **IBM PC/XT & compatibles**

Price: **\$199.00 including tax (with no RAM)**

Supplier: **Atlantis International Computers**

Hyper-128AT

A short board providing 128k of memory for the AT.

Machines: **IBM AT & compatibles**

Op. Sys.: **DOS & PC version of Xenix**

Price: **\$495.00**

Supplier: **Hypertec Pty Ltd**

Hyper-256

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **DOS (PC and Microsoft)**

Price: **\$195.00**

Supplier: **Hypertec Pty Ltd**

Hyper-512

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$450.00**

Supplier: **Hypertec Pty Ltd**

Hyperam

The Hyperam features a Lotus/Intel/Microsoft expanded memory specification with up to 2Mb of RAM on board, and comes standard with 512k of memory. Optional features include 2 serial ports, a parallel port and a clock/calendar.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **DOS (PC/Microsoft)**

Price: **\$810.00**

Supplier: **Hypertec Pty Ltd**

IBM 128Kb Memory Module Kit

This feature provides an additional 128k of memory on the system planar board. The system board must have 512k of memory installed before installing this option. A maximum of one kit may be installed on the system board.

Machines: **IBM PC/XT**

Price: **P O A**

Supplier: **IBM**

IBM 256k Memory Module Kit

This feature provides an additional 256k of memory on the system planar board. This option is supported for Models 468 and 478. A maximum of one kit may be installed on the system board.

Machines: **IBM PC/XT (late XT models)**

Price: **P O A**

Supplier: **IBM**

IBM 512k/2Mb Memory Expansion Option

This option comes with 512k of memory on the card. With additional 512k memory module kits this card provides up to 2Mb of memory. A maximum of five 512k/2Mb memory expansion options can be installed giving a total of 10.5Mb of user memory.

Machines: **IBM PC/AT**

Price: **P O A**

Supplier: **IBM**

IBM PC 256k Memory Expansion

This is a card which increases system memory by 256k. It is only 127mm long and can be plugged into any expansion slot (except for J8).

Machines: **IBM PC/XT**

Price: **P O A**

Supplier: **IBM**

IBM PC 256k Memory Expansion Option

The 265k memory expansion option increases memory by 256k for the PC and PC-XT. It is similar to the 64/256k memory expansion option except that it is only 277mm long and can be installed in the short slots. It cannot be installed in an external expansion unit. The board comes with installation instructions.

Machines: **IBM PC/XT**

Price: **P O A**

Supplier: **IBM**

IBM PC AT 128k Memory Expansion

The IBM AT 128k memory expansion option expands the memory of IBM AT models from 512k to 640k. With this option compatibility with the existing IBM PC, Portable PC and PC-XT is maintained for applications requiring the 512 - 640k address space. 16-bit data path and parity

are supported. Only one 128k memory expansion option may be installed.

Machines: **IBM PC AT**

Price: **P O A**

Supplier: **IBM**

IBM PC AT 256k Memory Module Kit

The IBM AT 256k memory module kit enables the Base Model user to upgrade from 256k to 512k of base memory. This kit consists of eighteen modules which the user plugs into existing sockets on the system board.

Machines: **IBM PC AT**

Price: **P O A**

Supplier: **IBM**

IDEAminimax

Our IDEAminimax, designed for the short slot in the IBM Portable, lets you add up to 384k of RAM. It comes with IDEA's menu driven software featuring RAM floppy disk emulation, print spooler and diagnostics.

Machines: **IBM PC/XT/AT/Portable**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Price: **\$408.00 to \$674.00 ex tax**

Supplier: **IDEAssociates Australia**

Intel Above Board

Intel provides the above board range of products that allow a PC to use memory above the 640k barrier. These products being available for both the PC/XT and AT. A recent addition is the INBOARD 386/AT which provides a 386 processor and associated 32-bit hardware for an AT or compatible.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, Unix, Xenix**

Price: **\$500.00 - \$3000.00**

Supplier: **Tech Pacific Pty Ltd**

M-384 PC add on card

The M-384 384k multifunction card features 6 banks of fully socketed memory with parity check, expandable to 384k, one parallel printer port, one RS232C serial interface port, a real time clock/calendar with battery backup, a games adaptor port, RAM (an electronic disk emulator) and PSPOOL - a printer spooler.

Machines: **IBM PC/XT &**

compatibles

Price: **\$217.03 including tax**

Supplier: **Data Cable**

MAT 8080 PC add on card

The MAT 8080 PC/AT 3 Megabytes Memory Expansion card features fully socketed memory with parity check up to 3 megabytes using 41256 RAM chips. An optional stack board is available to increase memory up to 6Mb.

Machines: **IBM PC/AT**

Price: **\$249.17 including tax**

Supplier: **Data Cable**

MR-200 PC add on card

This card supports Lotus/Intel/Microsoft expanded memory specification (EMS) and provides up to 2048k of expanded memory with selective configuration option for conventional memory (below 640k) or expanded memory (above 640k). Four expanded memory cards can be added for a maximum configuration of 8Mb. Ramdisk, (electronic disk emulation) and Pspool, (Electronic print spooler) software is provided.

Machines: **IBM PC/XT**

Price: **\$345.60 including tax**

Supplier: **Data Cable**

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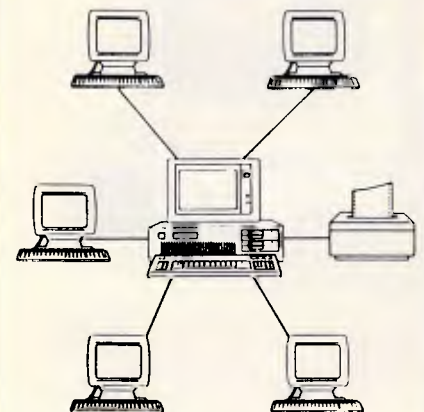
- Add 4, 8, or 16 serial ports to a PC, XT, AT or compatible using the Hostess 4 and 8 port boards.
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MR-640 PC add on card

The MR-640 RAM card can be installed in short slot of IBM PC/XT and other portable PC computers. It uses both 64k DRAM and 256k DRAM to expand a maximum configuration of 640k.

Machines: **IBM PC/XT & compatibles**

Price: **\$98.10 including tax**

Supplier: **Data Cable**

MacSnap 524S 512k - 1Mb SCSI

The MacSnap 524S is a memory upgrade for the Macintosh 512k with 128k ROM. It provides 1Mb of linear RAM and a SCSI interface and external port. The simple installation requires no soldering or motherboard modification and takes only a few minutes.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Memory: **128k**

Price: **\$720.00 including tax**

Supplier: **Symbiotic Computer Systems**

MacSnap 548 512k - 1Mb

The MacSnap 548 is a memory upgrade for the Macintosh 512k providing 2Mb of linear RAM. The simple installation requires no soldering or motherboard modification. The MacSnap is ideal for memory-intensive applications, such as desktop publishing systems running under Switcher (eg. PageMaker with MacDraw, MacWrite etc).

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$1299.00 including tax**

Supplier: **Symbiotic Computer Systems**

MacSnap Plus Two 1Mb - 2Mb

MacSnap Plus Two is a low priced easily installed memory upgrade for the Macintosh Plus user who does not wish to expand any further. The installation is performed by simply removing the four SIMM memory boards from the Macintosh Plus, inserting them in the MacSnap SIMMs.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$995.00 including tax**

Supplier: **Symbiotic Computer Systems**

MacSnap Plus Two H 1Mb - 2Mb Upgrade

MacSnap Plus Two H is designed for expandability and/or internal hard disk compatibility. The Plus Two H provides two replacement SIMM's utilizing 1 Megabit chips, giving the user 2.5Mb of linear RAM, expandable to 4Mb with two more MacSnap Plus SIMM's. DOVE's standard high performance software package is included in the upgrade. The MacSnap Plus Two is compatible with the Megascreeen and HyperDrive and other internal hard disks, and requires no auxiliary fan. The MacSnap Plus Four with full 4Mb retails for \$4199.00.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$2280.00 including tax**

Supplier: **Symbiotic Computer Systems**

Memory Card

The EME Memory Card gives you the ability to expand the memory of an IBM AT or AT compatible by adding an extra 2.5Mb of RAM. The board comes in two options: unpopulated (zero RAM) or populated to 2.5Mb.

Machines: **IBM PC/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **From \$475.00**

Supplier: **Eastern Micro Electronics**

More Memory 1024

The More Memory 1024 kit contains all the parts needed to upgrade a 512E or upgraded original Macintosh to 1Mb of memory. The upgrade procedure fits an additional board with 512K on the Macintosh Logic Board. Good soldering experience is a prerequisite for the fitting of this kit.

Machines: **Macintosh**

Memory: **512k**

Other Req.: **Apple 128K ROMS/D S Disk upgrade is a prerequisite.**

Price: **\$360.00 including tax**

Supplier: **Firmware Design Pty Ltd**

More Memory 4096

The More Memory 4096 kit provides an easy way to increase the memory of a MacPlus to 4 megabytes. The upgrade is done by replacing the existing SIMM modules on the MacPlus Logic Board with new modules. As the Firmware Design Modules utilise the latest CMOS 1 Megabit memory chips, heat build up is prevented and a fan is not needed. A 2



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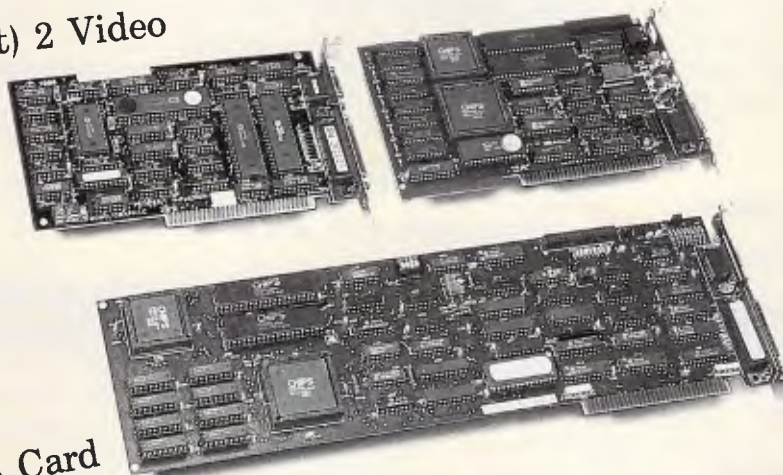
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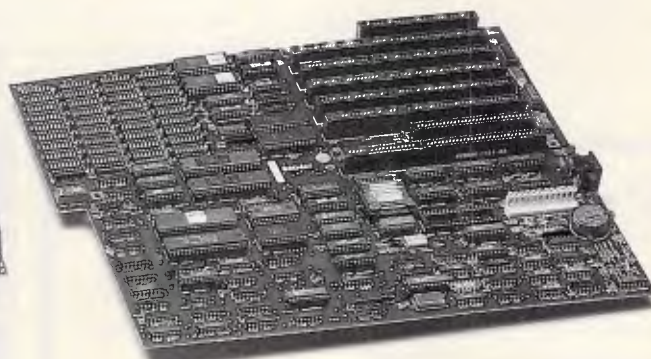
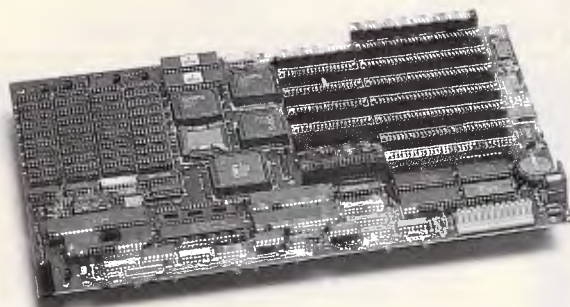
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Mb version of the kit is also available.

Machines: **Macintosh Plus**

Memory: **1024k**

Price: **P O A**

Supplier: **Firmware Design Pty Ltd**

More Memory 512

The More Memory 512 kit contains all the parts needed to upgrade a 128k Macintosh to 512k. Full instructions are included with the kit. As the upgrade procedure includes the removal of existing chips from the Macintosh Logic Board, good soldering experience is needed.

Machines: **Macintosh**

Memory: **128k**

Other Req.: **Good soldering experience.**

Price: **\$180.00 including tax**

Supplier: **Firmware Design Pty Ltd**

NEC APC-H4500 Mem. Expn. Board + Chips

The Memory Expansion Board is a printed circuit board that is inserted in the expansion slot of an NEC APC-IV or compatible. This board adds 512Kb of RAM to the standard memory capacity of the machine. By adding 512Kb memory expansion kits to the board

the total RAM capacity can be increased to 2Mb for each card. A maximum of five cards can increase the total system memory to 10.5Mb.

Machines: **NEC APC-IV or compatible**

Price: **\$520.00 ex tax**

Supplier: **NEC Information Systems**

Australia P/L

STB C-RAM 384

STB's C-RAM 384 adds 384k of CMOS memory to the standard 256k PC Convertible, boosting total system memory to 640k and unleashing the full DOS potential.

Machines: **IBM PC Convertible & compatibles**

Price: **\$878.92 excluding tax; \$995.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

STB Grand Byte

The STB Grand Byte is a memory expansion board for the IBM AT. It provides extra memory up to 2.5Mb.

Machines: **IBM AT & compatibles**

Price: **\$556.50 ex tax; \$630.00 incl tax**

Supplier: **Roland Corporation Australia**

STB Memory Companion/PC

The STB Memory Companion is for use in IBM PC/XT/AT and compatible systems. Supports software programs using the Lotus/Intel/Microsoft Expanded Memory Specification. Provides memory from 0k to 2Mb; banked switched memory in 16k blocks.

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$525.58 excluding tax; \$595.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

Wyse WY991 1Mb RAM Board

WY991 is a high speed 1Mbyte RAM card for AT compatible machines operating up to 10MHz.

Machines: **IBM PC/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$576.00**

Supplier: **MPA Pty Limited**

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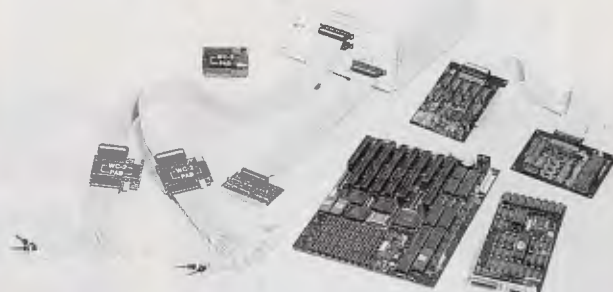
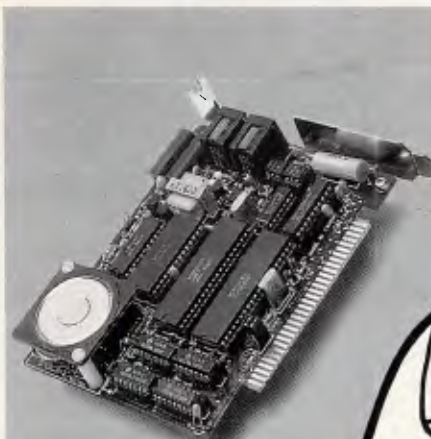
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- * O/P Modes: Auto Dialing & Answer



MODEM

PC-34D.WORLD MODEM 2123

- * Compatibility: Bell 103 & CCITT V21, V23 & Videotex System
- * Modulation: 300 BPS, 1200 BPS
- * O/P Modes: Auto Dial & Answer (Tone or Pulse)

PC-34E.WORLD MODEM 1200

- * Compatibility: Bell 103, 212A & CCITT V21, V22
- * Modulation: 200 BPS, 1200 BPS
- * O/P Modes: Auto Dial & Answer (Tone or Pulse)

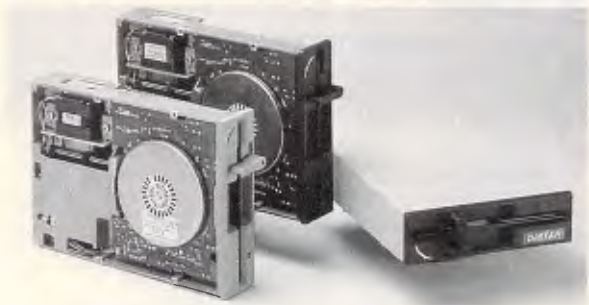
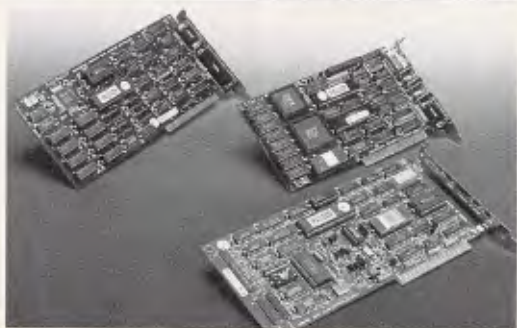
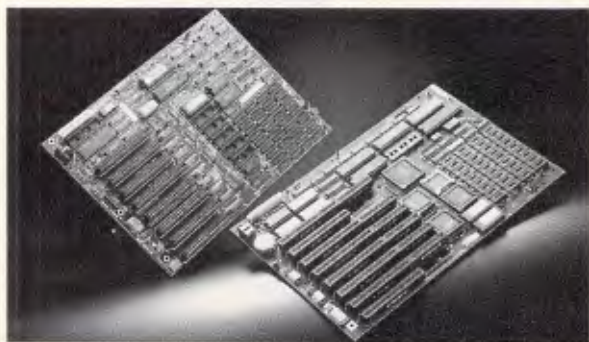
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- * Compatibility: Bell 103, 212A & CCITT V21, V22, V23
- * Modulation: 300 BPS, 1200 BPS, 2400 BPS
- * O/P Modes: Auto Dial & Adaptive Dialing, Auto or Manual Answer



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Machines: **IBM PC/XT/AT & compatibles**

Price: **\$4000.00 - \$6000.00 excluding tax**

Supplier: **Worldwide Business Systems**

Atlantis Colour Graphics Card

The Atlantis Colour Graphics Card is a fully compatible colour graphics adaptor. It is capable of displaying 80 x 25 characters in text mode or up to 640 x 200 pixels in two colours. Output is via an RCA composite video connector or a 9-pin D-type RGB connector.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **Composite monochrome or RGB Colour monitor.**

Price: **\$199.00 including tax**

Supplier: **Atlantis International Computers**

Eastern Micro Electronics

Atlantis EGA Graphics Card

The Atlantis EGA graphics card is an IBM compatible EGA card which enables the IBM to produce high resolution colour graphics. The card will also function as a CGA or MDA, as well as providing up to 640 x 350, 16 or 64 colour graphics. The card will also drive a CGA or Monochrome TTL monitor.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **EGA monitor for high resolution colour.**

Price: **\$650.00 including tax**

Supplier: **Atlantis International Computers**

Atlantis Hercules Card

The Atlantis Hercules Card is a Hercules compatible monochrome adaptor. The card will display 80 x 25 characters or 720 x 348 pixels in graphics mode. Output is via a 9-pin D-type connector. The card also includes a parallel printer port.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **TTL monochrome monitor**

Price: **\$199.00 including tax**

Supplier: **Atlantis International Computers**

Datamatic Pty Ltd

CPI Graphmaster with 256k

Compatible with EGA, CGA and MDA. Allows simple build-up of video memory to 256k. Allows RAM resident character generator to be loaded allowing any set of 256 characters to be incorporated in applications. Flicker-free scrolling.

Price: **\$895.00 including tax**

Supplier: **Software Corporation of Australia**

Colour Graphics Card

A fully compatible CGA card with an optional parallel port.

Machines: **IBM XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$168.00**

Supplier: **Ottoman Group Pty Ltd**

Colour MacVideo (Mac 512k MacPlus)

This board is easily dealer installed into the Macintosh, and produces a colour signal for use on RGB monitors such as a SuperVision IV or MacMonitor RGB (SYM 133). The system uses a special power enclosing technique to enable colour charting, MacPainting etc. Colour animation may also be produced by using MacMovies software.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$530.00**

Supplier: **Symbiotic Computer Systems**

DSE Multitech Colour Graphics Adaptor

80 x 25 or 40 x 25 text formats. Light pen interface. Provides output for RGB colour monitor or composite monochrome monitor. 8 x 8 pixel character. 16 foreground, 8 background colours in text mode. Two graphics screen size 640 x 200 pixels (2 colours) or 320 x 200 pixels (4 colours). 256 characters and symbol in ROM.

Machines: **IBM PC/XT/AT & close compatibles**

Op. Sys.: **PC/MS-DOS 2.11, 3.1, 3.2 or higher**

Memory: **256k**

Storage: **360k**

Price: **\$249.00 including tax**

Supplier: **Dick Smith Electronics Pty Ltd**

DSE Enhanced Graphics Adaptor

This card provides 8 x 14 pixel characters, 512 characters and symbols in RAM loadable character generators (256 of which are user programmable). Two graphics modes: 640 x 350 pixels in 4 colours and 640 x 350 pixels in 16 colours. It emulates the mono and colour graphic adaptor and provides RGB colour or TTL mono output.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.11, 3.1, 3.2 or higher**

Memory: **256k**

Storage: **360k**

Other Req.: **Multitech Enhanced Colour Monitor.**

Price: **\$749.00 including tax**

Supplier: **Dick Smith Electronics Pty Ltd**

DSE Multitech Monographic Adaptor

This card is Hercules monochrome compatible and provides 720 x 348 pixel graphics and 80 x 25 text. It is IBM Monochrome card compatible and provides a parallel printer port, a light pen interface and can be used in conjunction with CGA/EGA cards.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.11 or higher**

Memory: **256k**

Other Req.: **TTL monochrome monitor.**

Price: **\$299.00 including tax**

Supplier: **Dick Smith Electronics Pty Ltd**

Display Cards

Eastern Micro Electronics make a range of display cards including colour graphics (640 x 200), monochrome graphics (720 x 348), a magic card which combines both monochrome and colour capabilities and an enhanced graphics (EGA) card.

Machines: **IBM PC/XT/AT & compatibles**

Price: **From \$230.00**

Supplier: **Eastern Micro Electronics**

Enhanced Graphics Adaptor Card

A fully compatible EGA/CGA card operating up to 10MHz.

Machines: **IBM XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0/3.0**

Memory: **256k**

Price: \$495.00

Supplier: Ottoman Group Pty Ltd

Enhanced Graphics Display Adaptor

This enhanced graphics display adaptor has a 256k memory and can emulate CGA, HGC and EGA.

Machines: **IBM PC & compatibles**

Price: \$450.00

Supplier: **Super-PC**

Hercules Colour Card

The Hercules Colour Card is a half-card size version of the IBM Colour Graphics Adaptor with a parallel printer port. It is designed to reside in the same system at the same time as the Hercules Graphics Card so it can use the Hercules software switch.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Price: **P O A**

Supplier: **Arcom Pacific**

Hercules Graphics Card

The Hercules Graphics Card provides high resolution monochrome graphics, high quality text, flicker-free scrolling, it makes high resolution 720 x 348 bit-mapped graphics possible on the monochrome display. It also saves valuable expansion slots by giving you a parallel printer port.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Price: **P O A**

Supplier: **Arcom Pacific**

Pacific Data Corporation

Hercules Graphics Cards

Display adaptor cards to allow graphics to be displayed by PCs. Available in both monochrome (Graphics card Plus) and colour (Incolor).

Machines: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS, Xenix**

Other Req.: **Relavent display**

Price: **\$400.00 - \$800.00**

Supplier: **Tech Pacific Pty Ltd**

Hercules Graphics Plus Card

The Graphics Card Plus from Hercules speeds up the display of multiple fonts.

The board enhances many packages using software drivers developed by Hercules. RamFont technology combines the speed and simplicity of text mode with the flexibility of graphics mode. RamFont can be used to display graphs in a window overlaid on a 1-2-3 spreadsheet. With Microsoft Word v 3.0 italics, boldface, super/subscripts and small capitals can all be displayed at text mode speed. Up to 24 additional 128 character fonts can be held in RamFont supporting in-house publishing software on the IBM PC.

Machines: **IBM PC/XT/AT & compatibles**

Price: **P O A**

Supplier: **Arcom Pacific**

Hyperesa, Hyperesa/P

The Hyperesa supports IBM EGA, standard CGA, standard monochrome and IBM ESA monochrome.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **DOS (PC/Microsoft) 2.0 of higher**

Price: **Hyperesa \$845.00; Hyperesa/P \$895.00**

Supplier: **Hypertec Pty Ltd**

IBM Colour/Graphics Monitor Adaptor

The Colour/Graphics Monitor Adaptor allows the attachment of a monitor to the IBM Personal Computer. Either this or the monochrome adaptor is required for display output. Slot 1 is not recommended. Supports colour or black and white monitors and displays 7 x 7 characters in a 8 x 8 dot box. Displays 25 x 40 or 25 x 80 text formats in sixteen foreground colours and eight background colours. It has 16k RAM display buffer and supports a light pen device. This adaptor may be co-resident with the monochrome adaptor but only one used at a time

Machines: **IBM PC**

Price: **P O A**

Supplier: **IBM**

IBM Monochrome Display & Printer Adaptor

This option allows the attachment of the IBM Monochrome Display or Graphics Printer to the IBM Personal Computer. Either this adaptor or the Colour/Graphics Monitor Adaptor is needed for display output, both can be present but only one monitor used at the same time. The adaptor is installed into one of the systems expansion slots. Slot Number 1 is not recom-

mended. This option displays 7 x 9 dot characters in a 9 x 14 dot area. Screen format is 25 lines of 80 characters.

Machines: **IBM PC**

Price: **P O A**

Supplier: **IBM**

IBM PC Convertible CRT Adaptor

The IBM PC Convertible CRT Display Adaptor attaches to the back of the IBM Convertible and allows the user to connect a separate CRT display to the system. The optional IBM PC Convertible Monochrome Display may be connected by using this adaptor.

Machines: **IBM PC Convertible**

Price: **P O A**

Supplier: **IBM**

IBM PC Enhanced Graphics Adaptor

The IBM PC Enhanced Graphics Adaptor provides support for the Enhanced Colour Display and graphics for the Monochrome Display. This gives 640 x 350 pixel resolution, 8 x 14 pixel characters in 80 x 25 mode. The card carries 64k of graphics memory which can be expanded to increase the number of colours from 4 to 16. The board is provided with installation and problem reference manuals and diagnostic diskettes.

Machines: **IBM PC/XT/AT**

Price: **P O A**

Supplier: **IBM**

IBM PC Graphics Memory Expansion

The IBM PC Graphics Memory Expansion Card expands the base memory of the IBM PC Enhanced Graphics Adaptor from 64k to 128k thereby enhancing the graphics display to 16 colours.

Machines: **IBM PC**

Other Req.: **IBM PC EGA card.**

Price: **P O A**

Supplier: **IBM**

IBM PC Pro. Graphics Display Controller

The IBM PC Professional Graphics Controller allows an IBM Personal Computer to generate and display high definition graphics images on an IBM Personal Computer. It also allows emulation of the IBM PC Colour/Graphics Adaptor. It has two modes: (1) current PC colour graphics emulation mode and (2) expanded graphics

mode. It runs most software with enhanced text character set (16 x 8 pixels) in emulation mode. Features 640 x 480 pixel definition, 256 colours from a palette of 4096, built-in 2D and 3D drawing capability, functions to rotate, translate and scale, user redefinable colour selection, program readable colour look-up table, viewport and 3D clipping, built-in or user-programmable character set, variable character size, user-selectable bit planes for foreground/background, vector and polygon drawing and polygon fill.

Machines: **IBM PC/XT/AT & compatibles**

Price: **P O A**

Supplier: **IBM**

IDEAcomm 5251D

IDEAcomm 5251D display adaptor card replaces IBM monochrome display adaptor and allows true display of IBM 5250 display attributes, including column separators and underscores. Full 32 attributes.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Other Req.: **IBM mono or other compatible screen.**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEAgraph

IDEAgraph is a high speed colour graphics card that provides from 512x512 to 1024x1024 pixel resolutions and may be used with all PC compatible colour monitors. IDEAgraph is available in 24MHz or 40MHz versions with 128k or 256k memory on board. Software includes a tutorial program and a library of graphics primitives. Sync parameters are software determined. A support card for composite video is also available.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$2175.00 to 5265.00 ex tax**

Supplier: **IDEAssociates Australia**

IQ220

The IQ200 enables any computer with an RS232 port to control an instrument on the IEEE-488 bus. The IQ220 is a totally self contained device, compact and portable. It can control up to 14 peripheral instruments, allowing complex data acquisition and instrument control systems to be built around almost any computer. RS422 is available as an option.

Machines: **Any computer with an RS232 port**

Price: **\$1465.00 excluding tax**

Supplier: **Mestec Electronics Pty Ltd**

KIF-557 Taxan Gold Card

The Taxan KIF-557 Gold Card is a high multi-resolution colour adaptor supporting the CGA (dual scan) EGA and 400 line implemented software such as ACAD, Lotus 1-2-3, Symphony, Microsoft Windows and many others. CGA - 320 x 200 x 4 colours (dual scan 640 x 400), EGA - 640 x 350 x 16 colours (palette of 64 colours), TGA - 640 x 400 x 16 colours.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **Supervision 650 or Supervision 840 colour monitor recommended**

Price: **\$1150.00 ex tax**

Supplier: **Megavision Pty Ltd
IBM**

M-20A PC add on card

The M-20A Colour/Graphic/Video/Printer card features: RGB Colour port, parallel port for printer, light pen interface and a monochrome video jack. It has 320 x 200 colour, 640 x 200 B & W graphics resolutions and 40 x 25 or 80 x 25 text modes.

Price: **\$172.03 including tax**

Supplier: **Data Cable**

M-20E PC add on card

This product is 100% EGA compatible and provides TTL Monochrome, RGB Colour in up to 64 colours giving 640 x 350, 640 x 200 or 320 x 200 resolutions support and has a 256k buffer on board, light pen interface, feature connector and video jack support.

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$586.67 including tax**

Supplier: **Data Cable**

M-30 PC add on card

Features 320 x 200 pixels Colour, 640 x 200 pixels B & W graphics; 40/80 x 25 colour/B & W text, a composite-video port, one NTSC with colour and one NTSC without colour to provide a better display. A light pen plotter is available.

Machines: **IBM PC/XT & compatibles**

Price: **\$155.96 including tax**

Supplier: **Data Cable**

M-450 PC add on card

Features RGB Colour, Monochrome display controlled by hardware; 720 x 348 pixels Hercules Card compatible giving nonflickering scrolling plus 132 columns with either 25 or 44 display which can be

chosen by software; a parallel printer port and a light pen interface.

Machines: **IBM PC/XT & compatibles**

Price: **\$345.60 including tax**

Supplier: **Data Cable**

MVP

This board is a real time image processor which does a range of image processing functions in real time (hardware processing). The image can either be colour or monochrome. Resolution 512 x 512 x 32-bits. Can have multiple boards in system. Imaging software available.

Machines: **IBM AT & compatibles**

Price: **\$9000.00 - \$19000.00**

Supplier: **MACE Machine Division**

MacVideo (Mac 512k/MacPlus)

The MacVideo Board is a low-cost solution for retrieving a video signal from the Mac for use on other display devices. It provides PAL video at 22kHz which may be utilised by an adjusted video monitor (we provide two ready made units - SYM 130 and SYM 132) or video device with external synch such as projection television. The board is dealer installed, and takes approximately five minutes to fit. The product does not alter the function of the internal Macintosh screen.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$370.00 including tax**

Supplier: **Symbiotic Computer Systems**

Matrox PG 640

Hi-resolution and high speed graphics board uses 2 & 3 dimensional graphical primitives. (PGA and CGA compatible) specifically designed for CAD-CAM & graphical arts systems. Resolution 640 x 480. 256 colours from 16.7 million.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **RGB analogue monitor**

Price: **\$3819.00**

Supplier: **MACE Machine Division**

Metheus 1008 Graphics Card

The Metheus 1008 Display Processor displays a 1024 x 768 resolution, with 256 simultaneous colours from a palette of 4096. Vector drawing speed is 5 million pixels per second, and polygon fill rate is 42 million pixels per second. The board

also emulates the CGA card.

Machines: **IBM PC/AT & compatibles**

Memory: **256k**

Price: **\$7000.00**

Supplier: **Datamatic Pty Ltd**
Firmware Design Pty Ltd

Metheus Omega PC Graphics Card

The Omega PC Display Processor displays a 1024 x 768 resolution with 16 simultaneous colours from a palette of 4096. Vector drawing speed is 5 million pixels per second, and polygon fill rate is 42 million pixels per second. The board also emulates the CGA card.

Machines: **IBM PC/AT & compatibles**

Memory: **256k**

Price: **\$6000.00**

Supplier: **Firmware Design Pty Ltd**
Datamatic Pty Ltd

Monochrome Graphics Card

A fully compatible monochrome graphics adaptor card with an optional parallel port.

Machines: **IBM XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$138.00**

Supplier: **Ottoman Group Pty Ltd**

More Memory 4096

The More Memory 4096 kit provides an easy way to increase the memory of a MacPlus to 4 megabytes. The upgrade is done by replacing the existing SIMM modules on the MacPlus Logic Board with new modules. As the Firmware Design Modules utilise the latest CMOS 1 Megabit memory chips, heat build up is prevented and a fan is not needed. A 2Mb version of the kit is also available.

Machines: **Macintosh Plus**

Memory: **1024k**

Price: **P O A**

Supplier: **Firmware Design Pty Ltd**

More Memory 512

The More Memory 512 kit contains all the parts needed to upgrade a 128k Macintosh to 512k. Full instructions are included with the kit. As the upgrade procedure includes the removal of existing chips from the Macintosh Logic Board, good soldering experience is needed.

Machines: **Macintosh**

Memory: **128k**

Other Req.: **Good soldering experience.**

Price: **\$180.00 including tax**

Supplier: **Firmware Design Pty Ltd**

NEC APC H4420 Power Graphics Board

The NEC Power Graphics Board (APC-H4420) is used to connect an NEC Power Graphics Display to an NEC-APC IV. It has an extremely high resolution capability of 1120 x 750 pixels. However, it does not prevent software incapable of addressing this resolution from running on the system, as it is able to select a lower resolution as required. A total of 16 colours can be displayed at any time from a palette of 4096.

Machines: **NEC APC-IV**

Price: **\$1370.00 ex tax**

Supplier: **NEC Information Systems**
Australia P/L

NEC APC-H4400 Colour Graphics Board

The NEC APC-H4400 colour graphics board is a colour display adaptor (compatible with the IBM CGA card) capable of 640 x 200 pixel resolution. It is a half length card suitable for use in an NEC APC-IV.

Machines: **NEC APC-IV**

Op. Sys.: **PC/MS-DOS, Xenix, Theos**

Price: **\$280.00 ex tax**

Supplier: **NEC Information Systems**
Australia P/L

NEC APC-H4410 Advanced Graphics Board

The NEC Advanced Graphics Board (APC-H4410) is used to connect a colour display to an NEC APC-IV. The Advanced Graphics Board is a full length card which allows maximum display resolution of 640 x 350 pixels. It is also capable of switching to lower resolution modes if required. The Advanced Graphics Board is compatible with the standard EGA card.

Machines: **NEC APC-IV**

Price: **\$730.00 ex tax**

Supplier: **NEC Information Systems**
Australia P/L

NTH Engine

The NTH Engine is a high speed graphics board that combines the speed of an expanded memory manager with a high resolution display of 640 x 480 or 1024 x 768 and an advanced custom graphics chip running at 5 mips. In effect the NTH Engine is a complete graphics computer that will allow panning and zooming of an A1 size drawing in less than 2 seconds, on any

computer (IBM type) regardless of its clock speed. The NTH Engine holds a vector display list of a drawing in RAM to achieve 'true' zooms. The NTH Engine is available as a complete board and monitor set or as a board alone.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **640k**

Storage: **20Mb**

Other Req.: **A CAD program such as Versacad or Autocad**

Price: **\$5250.00 - \$14190.00 excluding tax**

Supplier: **Quest International Computers Pty Ltd**

Orchid Turbo EGA

Runs between EGA and 80286 processor on 16-bit bus.

Op. Sys.: **EGA and emulation utilities**

Price: **P O A**

Supplier: **Porchester Computers**

PG 1280

Very high resolution and very high speed graphics board uses 2 & 3 dimensional graphical primitives. (PGA & CGA compatible). Specifically designed for CAD-CAM & graphical arts systems. Resolution 1280 x 1024. 256 colours from 16.7 million.

Machines: **IBM AT & compatibles**

Price: **\$8000.00**

Supplier: **MACE Machine Division**

PIP

Image processor allows video images to be grabbed from a standard video source in real time. The image is then displayed and can be processed with the supplied software. Multiple images can be stored. Resolution 512 x 512 x 8. Have multiple boards in system. Option 640 x 480 resolution or 512 x 512 resolution with 4 frame buffers.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Other Req.: **Camera and RGB analogue**

Price: **\$3500.00 - \$4400.00**

Supplier: **MACE Machine Division**

Paradise Autoswitch EGA Card

The Paradise Autoswitch graphics card lets the Autoswitch EGA Card change operational modes (EGA, CGA, Hercules, etc) according to the needs of your application software without any intervention on your part. The Autoswitch EGA Card will sense the kind of software you are using

and make the necessary adjustments.
Machines: **IBM PC/XT/AT & compatibles**

Memory: **256k**

Price: **\$695.00 per card**

Supplier: **Pacific Data Corporation**

Paradise Backpack for MGC

Six-pack capabilities for your Paradise Monographics Card, saving a complete slot, because the combined board occupies just one slot.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$595.00**

Supplier: **Software Corporation of Australia**

Paradise Colour/Mono Card

One card does both colour and mono video support.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$395.00 including tax**

Supplier: **Software Corporation of Australia**

Paradise Five Pack Card

Serial port, clock calendar, RAM-disk software, print spooler software, sockets for up to 384k RAM. (Comes with 0k).

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$395.00 including tax**

Supplier: **Software Corporation of Australia**

Paradise Modular Graphics Card

For mono video output, allows Hercules, Colour Graphics Adapter and flicker-free text.

Price: **\$795.00 including tax**

Supplier: **Software Corporation of Australia**

Persyst Intelligent Graphics Controller

Based on the powerful and programmable Texas Instrument TMS34010 Graphics Systems Processor, the IGC

displays at resolutions from 640 x 480 to 1280 x 1024 and up to 256 colours. Since new control software can be loaded into this IGC at any time from diskette, the board's functions can be supplemented, modified or adapted and the IGC can take full advantage of new software standards as they emerge.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **Appropriate monitor.**

Price: **\$2200.00 - \$3600.00**

Supplier: **Emulex Corporation**

SM 640

Solid modelling graphics board uses solid primitives and does shading with multiple light sources. It allows primitive to be combined to produce complex objects. Resolution 640 x 480. 256 colours from 16.7 million.

Price: **P O A**

Supplier: **MACE Machine Division**

STB Chauffeur HT

The STB Chauffeur HT graphics card is CGA, MDA, STB-G+2, STB-Super Res, Tseng Labs-Ultra Pak-S, STM Chauffeur and Hercules compatible. Will operate monochrome (TTL); RGB 15 - 18KHz, RGB 25KHz monitors. It has resolution up to 1052 x 352 for graphics and 132 x 44 column text mode; parallel port; optional serial port and clock option; PC accelerator.

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$613.92 excluding tax; \$695.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

STB EGA Multi-Res

The STB EGA Multi-Res videocard is IBM/EGA compatible, will display EGA graphics on a 400 line monitor, is CGA and MDA compatible and operates the following monitors:- TTL monochrome, RGB 15KHz; EGA; RGB 25KHz; Multisync 31 KHz. It has a standard parallel port. Maximum graphics resolution is 750 x 410/640 x 480 x 16 colours.

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$878.92 excluding tax; \$995.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

STB Rio Grande

The Rio Grande is STB multi function board which delivers I/O expansion and

memory expansion for the IBM AT. Expands memory from 128k - 1.5Mb, using the 64k and/or 256k. It has a parallel port as a standard feature, 2 IBM compatible serial ports (one standard, one optional). Optional game port.

Machines: **IBM AT & compatibles**

Price: **\$662.50 excluding tax; \$750.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

Sakata EGA Adaptor

A full function EGA adaptor with fully expanded graphics RAM (256k). Supports all EGA modes, including CGA compatibility mode. Teams well with the Sakata EGA Performer for high resolution text and graphics on the PC range.

Machines: **IBM PC/XT/AT & compatibles**

Price: **\$580.00**

Supplier: **Multitech Computers Pty Ltd**

Spectrum Graphics Adaptor

A range of graphics adaptor cards. Spectrum provides mono and colour graphics on one half card, Spectrum Plus provides the same, but adds a parallel and serial port and a clock on a full length card. The Super EGA card supports EGA and CGA colour graphics on a half card.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$545.00 to \$1050.00**

Supplier: **Micro Networks**

Tall Trees

Allows production speeds up to 50 times that of normal laser printers. Allows product to output at 300 dpi.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$500.00 - \$2500.00**

Supplier: **Minicomp Graphic Peripherals Pty Ltd**

Taxan KIF-555SP Colour Graphics

Taxan KIF-555SP TTL high resolution graphics adaptor is CGA compatible displaying CGA software in dual scan at either 320 x 200 x 4 colours, 640 x 200 x 2 colours or Plantronics 320 x 200 x 8 colours. Dual scan mode doubles these figures. Recommend for use with Supervision 840, Supervision

635/IVM and KX-1221, 1223 or 1224.
Machines: **IBM PC/XT/AT & compatibles**
Price: **\$650.00 ex tax**
Supplier: **Megavision Pty Ltd**

Taxan KIF-560 EGA/CGA Graphics Adaptor

Taxan KIF-560 is compatible with the IBM enhanced graphics adaptor and is also CGA auto switching. It is supplied with 256k of memory to achieve 16 colours from a palette of 64. Resolution is 640 x 350 with 16 colours, from CGA - 640 x 200 x 2 colours or 320 x 200 x 4 (high res character). Recommended for use with Supervision 660 CGA colour monitor.

Machines: **IBM PC/XT/AT & compatibles**
Price: **\$850.00 ex tax**
Supplier: **Megavision Pty Ltd**

Trident Enhanced Graphics Adaptor

IBM EGA compatible with a 256k display RAM and up to 64 colours in 640 x 350 (monochrome in 720 x 348).

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **Any**
Price: **\$393.00 excluding tax**
Supplier: **Trident Computer Industries Pty Limited**

Ultra EGA

Adaptor to drive EGA monitor. Can also emulate CGA and MDA. 12 months warranty.

ranty.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Other Req.: **EGA monitor**
Price: **\$315.00**
Supplier: **Lysco**

Ultra EGA +

Can emulate EGA, MDA, MGA and CGA. Can be connected to TTL, RGB or EGA monitor.

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$415.00**
Supplier: **Lysco**

VEGA Graphics Adaptor

A short card which can display different graphic standards; the EGA, HGC, CGA and MDA. This adaptor will support horizontal split screen applications in EGA mode. The adaptor is made in the US and comes with a two year warranty.

Machines: **IBM PC/XT/AT & compatibles**
Price: **\$934.00**
Supplier: **Dimension Graphics Pty Ltd**

Vega Deluxe

The Vega deluxe provides multiple display standards on a single board. It can provide MDA, CGA, EGA and Hercules compatibility and when used in conjunction with a Multisync type monitor can automatically switch between modes according to the needs of the software.

Machines: **IBM PC/XT/AT & compatibles**

patibles, EGD, NEC
Price: **\$960.00**
Supplier: **Tech Pacific Pty Ltd**

WY440 Graphics Card

Wyse WY440 is a full function display adaptor that provides complete compatibility with IBM EGA standard, IBM CGA standard and Hercules graphic standard. WY440 provides a crisp 640 x 440 pixels with 16 colours selectable from a palette of 64. It displays text in a sharp 8 x 14 pixel characters matrix. It provides emulation for 640 x 200 and 320 x 200 CGA modes and 720 x 348 Hercules graphics mode.

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Memory: **256k**
Price: **\$888.00**
Supplier: **MPA Pty Limited**

Wyse WY610

The Wyse WY610 card matches the IBM standard of graphics resolution with 640 x 200 pixels or 320 x 200 pixels. Text can be displayed in either 40 or 80 column mode. It also features a light pen connector and RF connector. The Wyse WY610 colour graphics card is recommended for the Wyse PC+, Wyse PC286, IBM PC/XT/AT & compatibles when used with the Wyse WY620, WY630 colour monitors.

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$285.00**
Supplier: **MPA Pty Limited**

Xcelleration System

Specialist hi-resolution graphics display systems offering high performance third generation for IBM AT's and compatibles. The systems use the Texas Instruments TMS34010 graphics processor with up to 4Mb of graphics memory. The systems feature display list zoom and pan, providing nearly instantaneous response with high resolution fine line images. Systems are available with 8 shades of grey, 16 colours or 256 colours.

Machines: **IBM PC/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$6000.00 - \$17000.00**
Supplier: **Comprador Business Systems**



TRIDENT COMPUTER INC.

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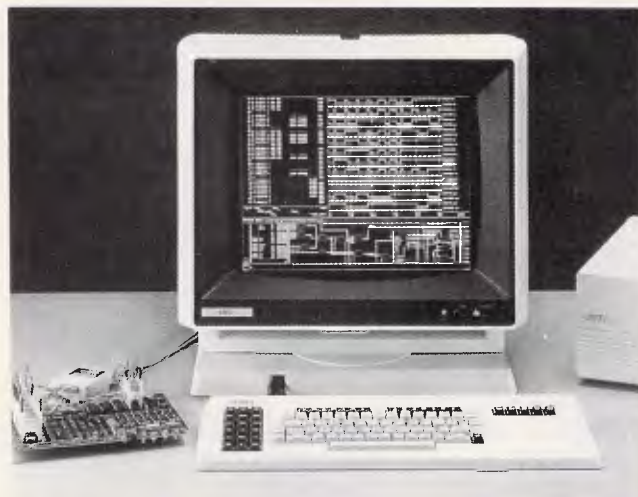
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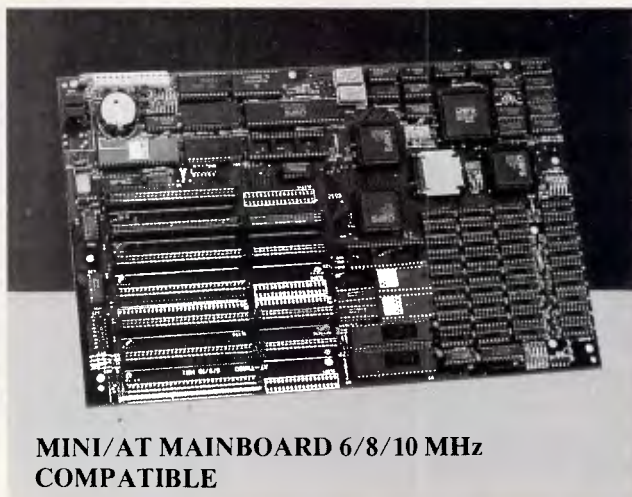
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We have our own CAD (Computer Aided Design) developing system for OEM order on

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- 2/ Gate array
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- 4/ Control module and sub-assembly



MINI/AT MAINBOARD 6/8/10 MHz COMPATIBLE

PC/XT/AT COMPATIBLE

Of course we supply SKD order to computer customer from case, switching power supply, keyboard, mainboard to add-on cards. So you can assembly in your place to control the delivery and save your cost by surface.



JAS ELECTRONIC CORPORATION

9th Fl., No. 40, Fushing N. Rd. Taipei, Taiwan, ROC P O Box 34-133, Taipei, Taiwan

Tel: (02)772-7251 Tlx: 25066 AUDIXTPE Fax: (886 2) 752-1291

Atlantis Clock Card

The Atlantis clock card is a real time clock/calendar which provides a continuous time and date function for any IBM PC/XT or compatible. The card is designed to fit in any slot of the IBM PC/XT and also includes a rechargeable battery.

Machines: **IBM PC/XT & compatibles**

Price: **\$99.00 including tax**

Supplier: **Atlantis International Computers**

Hypertick

This is a short clock calendar board. Machines: **IBM PC/XT/AT & compatibles**

Price: **\$110.00**

Supplier: **Hypertec Pty Ltd**

Overdrive RTC Clock Card

The Applix Overdrive Real Time Clock Card is easy to use and install,

fully ProDOS compatible, battery backed, accessible from your own programs and other operating systems, has Appleworks time and date on screen software, and most uniquely can be upgraded to an overdrive 800k disk controller card. Complete with manual and software. Australian design and manufacture.

Machines: **Apple II+, IIe, enhanced IIe**

Op. Sys.: **ProDOS, DOS, CP/M**

Memory: **64k**

Price: **\$169.95 including tax**

Supplier: **Applix Pty Ltd**

ACCELERATOR/CPU**286 Fast Card**

The 286 fast card is a 'half card' that slots into the IBM PC/XT to give effectively 80286 IBM AT processing power (8MHz clock speed). Improving operator efficiency up to 300% on average. Price includes installation. Dealer enquiries welcome.

Machines: **IBM PC/XT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$995.00 including tax - multiple buy discounts available.**

Supplier: **Computer Brokers of Australia**

80286 Speed Card

Enhances the performance of an XT or compatible to near AT levels.

Machines: **IBM XT & compatibles**

Op. Sys.: **PC/MS-DOS 3.0 or higher**

Memory: **640k**

Price: **\$688.00**

Supplier: **Ottoman Group Pty Ltd**

Apple IIOS Upgrade

Upgrades existing Apple IIs to the functions of an Apple IIGS with 256k of memory.

Machines: **Apple IIe**

Op. Sys.: **PRODOS 3.3**

Memory: **64k**

Other Req.: **Requires board swap from Apple IIe**

Price: **\$1195.00 including tax**

Supplier: **Apple Computer Australia**

Co-processor & I/O processor board

The Trump Card can provide up to 100 fold increase in execution speed. It uses a 28001 processor operating at 10MHz and has 2Mb of on board memory. Trump software runs concurrently with DOS.

Daughter boards are available which plug into a connector and provide serial and parallel communications and analog and digital I/O. Applications include maths and I/O co-processors and periphers and port controllers.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Other Req.: **One full length expansion slot**

Price: **\$3434.00**

Supplier: **Novatech Controls (Australia) Pty Ltd**

EME PFast 286 Board

The EME PFast 286 Board emulates an 'AT' processor and plugs into a standard IBM PC/XT or XT compatible. It comes standard with 1Mb of RAM.

Machines: **IBM PC/XT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **From \$1750.00**

Supplier: **Eastern Micro Electronics**

Fast 88

Speed-card for PCs and clones; replaces standard CPU chip with much faster 8088-2. Includes external speed-up button. Fully and clearly documented.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$294.00 including tax**

Supplier: **Software Corporation of Australia**

Fastcache-286

This accelerator comes in 9MHz and 12MHz versions. It replaces the functions of the 8088 CPU with an 80286, reading and writing to an on-board 8k 55ns cache, enabling 16-bit memory manipulation with no wait states. An external switch is supplied to switch control back to the 8088.

It also supports an 80287 IC or IOM Turbo 287 Board. Disk cache software and 8087/80287 diagnostics are included.

Machines: **IBM PC or compatible with 8088 processor**

Op. Sys.: **DOS**

Memory: **128k**

Price: **P O A**

Supplier: **Micro General Pty Limited**

Hyperace-286

This board has a 80286 processor running at 6MHz. It provides 16k of cache memory and is software switchable between 4.77 and 6MHz. The Hyperace-286 Plus uses an 80286 running at 6 or 10 MHz and retails for \$1365.00.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **DOS (PC & Microsoft) Xenix**

Price: **\$1279.00**

Supplier: **Hypertec Pty Ltd**

NETCH 68010/68881 Adaptor

A compact board containing a 68010 and 68881 coprocessor. Software is supplied to permit the 68010 to handle the system and the coprocessor interface for the 68881. Amiga programs run cleanly with no interference and heavy floating point Fortran programs show up to ten times speed increase. Supplied with full floating point support libraries for Absoft Fortran77, Aztec C and assembler. As an approved vertical market dealer, all boards fitted by Oxford Systematics retain Commodore warranty for the Amiga.

Machines: **Commodore Amiga**

Price: **\$1199.00 ex tax**

Supplier: **Oxford Systematics**

Novy Accelerator Board

The accelerator is installed inside the Macintosh using a clip, and provides an NS32081 Floating Point Processor. This improves the speed of floating point primitives by 10 - 12 times, which in practical terms means that an increase in speed of up to 50% is possible for floating point intensive programs.

Price: \$2040.00 including tax

Supplier: Symbiotic Computer Systems

Orchid Jet 386

The 16MHz clock speed and 32-bit processor result is speeds up to 3 times that of the standard AT.

Op. Sys.: PC/MS-DOS, Xenix, Unix, all 80386 operators

Price: P O A

Supplier: Porchester Computers

Orchid PC Turbo 286E

Available in 8 and 12MHz versions. Takes either 5 or 8MHz. 80287 math co-processor uses host processor for I/O functions.

Op. Sys.: PC/MS-DOS 2.0/3.0 or higher

Price: P O A

Supplier: Porchester Computers

Orchid Tiny Turbo 286

Halfcard accelerator. Socket for 5 or 8MHz 80287 floating point math. Speeds up all processing. 8088 processor stays in systems for 100% compatibility.

Op. Sys.: PC/MS-DOS 2.0/3.0 or higher

Price: P O A

Supplier: Porchester Computers

PC Turbo Board

Our small board plugs into the system board without taking up any slots and makes the PC run at between 6.77MHz and 8MHz (depending on the crystal fitted) compared with 4.77MHz for the standard PC. If you have a standard PC your programs will run 48% to 60% faster.

Machines: IBM PC, XT, Portable and

95% compatibles

Op. Sys.: DOS

Price: \$120.00

Supplier: Capital Software

PRO68 68020 Processor Card

The PRO68 is a 12MHz 68020 card for the PC or AT expansion bus. Software options include DOS compatible O/S, OS9, Mirage, Unix 5 release 2, the HALO graphics library, the BTRIEVE file system, and the Novell Netware library. Hardware options include memory expansion to 4Mb, higher clock rates (16MHz and 20MHz), the 68881 math processor, the 68851 memory management unit, and 8 additional serial ports (2 are standard). Lower cost products using the 68000 and 68010 processor are also available. See also Fortran Language Engine (Software Guide).

Machines: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS, OS9, Unixes and networks

Memory: 256k

Storage: Hard disk recommended

Price: \$4000.00 - \$10000.00 with software.

Supplier: Computer Transition Systems

SpeedDemon - Apple

Speed-up card for Apple II. Uses 65C02 processor, operating at 3.5MHz, with cache memory. Runs Apple up to 3.5 times faster.

Machines: Apple II

Price: \$495.00 including tax

Supplier: Software Corporation of Australia

SpeedDemon - IBM

Adds the speed of 8086 processor, operating at up to 10MHz. Transparent to all applications. Supports 8087 co-processor.

Machines: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Price: \$995.00

Supplier: Software Corporation of Australia

Turbo 287

The Turbo 287 is a board carrying a 10 or 12MHz 80287, properly heatsunk, and driven by its own crystal. Since the standard 80287 is driven at 5.33MHz, significant increases in speed of 80287 functions are enabled. Specifically spreadsheet, graphic and mathematical functions will be greatly enhanced.

Machines: IBM AT & compatibles, 80386 machines

Price: P O A

Supplier: Micro General Pty Limited

Machines: IBM PC/XT & compatibles

DISK CONTROLLERS

5.25" Diskette Drive Atlantis Floppy Disk Adaptor

The 5.25" Diskette Drive Adaptor provides the electronics support for two 5.25" Diskette Drives. The adaptor is included as standard in some XTs. One drive at a time is selected under program control. The board supports write-protected diskettes, turns drives off when not in use and transfers data directly into memory.

Machines: IBM PC/XT & compatibles

Op. Sys.: PC/MS-DOS 1.1 or later

Price: P O A

Supplier: IBM

Apple PC 5.25 drive

Drive and controller card for the Macintosh SE or Macintosh II to enable the transfer of MS-DOS files from 5 1/4" disks, to and from the Macintosh file environment.

Machines: Macintosh SE & II

Price: Drive \$709.00, SE card \$240.00, II card \$240.00

Supplier: Apple Computer Australia Pty Limited

Atlantis FDD Controller Card

The Atlantis FDD Controller Card is

a floppy disk drive controller card for the IBM PC/AT or compatibles. It will run both 360k and 1.2Mb disk drives.

Machines: IBM PC/AT & compatibles

Other Req.: 1.2Mb floppy disk drive(s).

Price: \$199.00 including tax

Supplier: Atlantis International Computers

Atlantis Floppy Disk Drive Controller

The Atlantis floppy disk drive controller is an IBM PC/XT compatible disk drive controller card, capable of handling two 360k disk drives.

Price: **\$110.00 including tax**
 Supplier: **Atlantis International Computers**

Atlantis HD/FD Controller Card

The Atlantis HD/FD Controller Card is an IBM compatible controller card designed to handle both hard disk drives and floppy disk drives on the AT machine. The board uses the Western Digital Chip Set and is thus very compatible. It will control either 360k or 1.2Mb floppy disk drives.

Machines: **IBM PC/AT & compatibles**
 Price: **\$800.00**
 Supplier: **Atlantis International Computers**

CPI Drive Master

Disk controller that's compatible with PC, XT or AT, so an XT can use the AT's 1.2Mb drive. Also supports standard 360k floppy drives, and up to 4 drives, 2 internal, 2 external.

Machines: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Price: **\$340.00 including tax**
 Supplier: **Software Corporation of Australia**

ESDI Disk Drive Controller with Floppy

IB21 ESDI Disk Controller allows as much as ten times the disk capacity currently offered with typical ST-506 disk drives and a very fast transfer rate. IB21 is compatible with PC/AT system floppy disks and Winchester and hence no additional BIOS or driver is required.

Machines: **IBM PC/AT & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Other Req.: **BIOS RAM utilities for partitions in excess of 700Mb.**
 Price: **\$1000.00**
 Supplier: **Domino Computers**

Easyfix 20+ and 30+

Easyfix is a hard disk and controller mounted on a card. It fits into a normal PC/XT/AT expansion slot and is fully compatible with any IBM or related software run on PC/MS-DOS 2.1 and upwards. It is available in 20 and 30Mb versions. Access times are 20Mb in 68ms, 32Mb in 35ms.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.1 or higher**
 Price: **P O A**
 Supplier: **Digital Laboratory**

Easyfix ECH-20+ and ECH-30+

Winchester drive cards for 21.4 and 32Mb Microscience hard disks.

Price: **P O A**
 Supplier: **Chua**

Hard disk controller for AT

Machines: **IBM AT & compatibles**
 Op. Sys.: **MS-DOS**
 Price: **\$1152.00 including tax**
 Supplier: **Infocorp Pty Limited**

IBM 20Mb Fixed Disk Drive Adaptor

The 20Mb Fixed Disk Drive Adaptor feature may only be installed in Models 486, 478 and 489. The adaptor is required for the new 20Mb fixed disk drive. Maximum number for this adaptor is one and one full size system expansion slot is required.

Machines: **IBM PC-XT & compatibles**
 Price: **P O A**
 Supplier: **IBM**

IBM PC Fixed Disk Drive Adaptor

The IBM Personal Computer fixed disk drive adaptor is used to attach up to two IBM Personal Computer 10Mb fixed disk drives. This adaptor requires a full length slot and provides buffering, error detection and data transfer. Using the installation instructions provided, the customer installs the adaptor. The customer may ask the dealer to do this.

Machines: **IBM PC/XT & compatibles**
 Price: **P O A**
 Supplier: **IBM**

M-60 PC add on card

Features: compact design for short slot, controls two floppy disk drives, unique space saving.

Machines: **IBM PC/XT & compatibles**
 Price: **\$75.60 including tax**
 Supplier: **Data Cable**

M-60A PC add on card

M-60A Floppy Disk Drive Controller Card features a 5.25 inch disk drive adaptor

which controls two internal and two external diskettes.

Machines: **IBM PC/XT & compatibles**
 Price: **\$82.03 including tax**
 Supplier: **Data Cable**

M-70 PC add on card

M-70 Hard Disk Controller Card features plug compatibility with IBM PC/XT Host bus, controls of two hard disk drives, DMA transfer capability, on-board error checking and correction, 5 - 67Mb formatted capacity. The M-70A Controller Card adds an additional IBM floppy interface to connect with two floppy disk drives.

Machines: **IBM PC/XT & compatibles**
 Price: **\$274.89 (M-70) and \$332.74 (M-70A) including tax**
 Supplier: **Data Cable**

MB-3000 PC add on card

MB-3000 PC/AT Hard Disk/Floppy Controller is compatible with IBM PC/AT host bus, controls two hard disk and two floppy disk drives. It provides an industry standard ST-506/ST-412 interface, a data transfer rate of 5 Megabits/sec and controls hard disk drive up to 1024 cylinders and 16 read/write heads.

Machines: **IBM PC-AT or compatibles**
 Price: **\$634.89 including tax**
 Supplier: **Data Cable**

Maynard Floppy/Hard Disk Controller

Price: **\$1095.00 including tax**
 Supplier: **Software Corporation of Australia**

OMTI PC-XT Controllers

The OMTI 5520 XT and 5527 XT-RRL Controllers have a 2k buffer on board to allow low interleaving and therefore much faster disk access. The 6510 ESDI XT Controller has an 8k buffer which allows use of 1 interleave, really speeding up access. They are all compatible with OMTIDISK, a software package for defining and formatting drives, which also allows breaking of a large drive into multiple smaller ones.

Machines: **IBM PC/XT & compatibles**
 Price: **P O A**
 Supplier: **Micro General Pty Limited**

Atlantis Parallel Interface Card

The Atlantis Parallel Interface is an IBM compatible parallel printer interface suitable for interfacing any Centronics parallel printer. Output is through a D-25 connector. The card is configurable as LPT1, LPT2 or LPT3.

Machines: **IBM PC/XT/AT & compats.**

Price: **\$99.00 including tax**

Supplier: **Atlantis International Computers**

IBM Parallel Printer Adaptor

The Printer Adaptor allows the IBM 80cps Graphics Printer to be connected to the IBM Personal Computer. Either this adaptor or the IBM Monochrome Display and Printer Adaptor is needed for printer output. A maximum of two printers can be attached - only one to each adaptor. Includes installation instructions and problem determination procedures.

Machines: **IBM PC**

Price: **P O A**

Supplier: **IBM**

Parallel Printer Card

A parallel printer interface complete with cable to connect parallel printers to the Apple II, IIe and IIGS range of machines. Has firmware routines built in to dump the Apple Hi Res graphics display screen to most popular printers

Machines: **Apple II series**

Price: **\$99.00**

Supplier: **Automatic Ice Company**

SERIAL/PARALLEL PORTS**8 Port RS232 Serial Multi Output**

This board provides 8 fully programmable RS232 ports to provide asynchronous serial communications from 50 to 9600 baud. It has comprehensive interrupts allowing the user to select the request level. Port addresses can also be set to any value and up to 8 PC-31 cards can be used giving 64 ports.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage Req.: **64kb or 320/360kb floppy**

Baud Rate: **50 to 9600**

Other Req.: **Software supplied with card.**

Price: **\$523.30 (ex tax), \$609.30 (including tax)**

Supplier: **Boston Technology Pty Limited**

AT Serial/Parallel Adaptor

The IBM Personal Computer AT Serial/Parallel Adaptor provides one serial port and one parallel port. It occupies only one system expansion slot. The serial port is fully programmable and supports asynchronous communications from 50 to 9600 bits per second. This adaptor does not support current loop operation. The parallel port provides the ability to attach devices that accept eight parallel bits of data. One or two Serial/Parallel Adaptors may be installed in either model.

PC's: **IBM PC-AT**

Baud Rate: **9600**

Price: **P O A**

Supplier: **IBM**

Arnet Serial Port Expansion Boards

Arnet boards provide the IBM XT, AT or compatible with either four or eight extra serial ports for running dumb screens or printers.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **MBOS, BOS/LAN and networks**

Memory: **128k**

Storage Req.: **450k**

Price: **\$1100.00 to \$1600.00**

Supplier: **Soft Centre Pty Ltd**

Asynchronous Communications Adaptor

The Asynchronous Communications Adaptor provides the IBM with a communications capability through an acoustical coupler or other modem. It is installed into one of the PC's expansion slots. It provides RS232C, Asynchronous (start/stop) ASCII protocol and is fully programmable in Assembler or Basic, communicates at 50-9600bps and will control a modem. Note: this board comes standard with the XT.

PC's: **IBM PC**

Baud Rate: **9600**

Price: **P O A**

Supplier: **IBM**

Atlantis Serial Card

The Atlantis Serial Card is a short length card that provides up to two RS232C asynchronous communication ports. One port is fitted as standard, with sockets for the second port included for future expansion. The ports can be addressed as COM1 or COM2. The card provides out-

put through D-25 connectors.

PC's: **IBM PC/XT/AT & compatibles**

Price: **\$99.00 including tax**

Supplier: **Atlantis International Computers**

Atlantis Serial/Parallel Card

The Atlantis Serial/Parallel Card is a short length serial and parallel interface card. The card comes with a 25-pin connector for the serial port. An optional serial port can be fitted at extra cost.

PC's: **IBM PC/XT/AT & compatibles**

Price: **\$180.00 including tax**

Supplier: **Atlantis International Computers**

Binary Synchronous Comms. (BSC) Adaptor

The Binary Synchronous Communications (BSC) Adaptor provides the ability to attach an IBM Personal Computer to a network using BSC protocols. The network may use either switched or leased lines and is able to control a modem. The BSC Adaptor is used in conjunction with the IBM BSC 3270 Emulation program.

PC's: **IBM PC/XT/AT**

Baud Rate: **Up to 9600**

Price: **P O A**

Supplier: **IBM**

CPI Half Pint I/O Card

All the capability of a full-size I/O card, at half the size. Parallel port, serial port, game port and clock/calendar with software driver.

Price: **\$350.00 including tax**

Supplier: **Software Corporation of Australia**

Digiboard

4 Port and 8 Port asynchronous serial communications ports, ideal for multi-user systems.

PC's: **IBM PC/XT/AT & compatibles**

Price: **\$660.00 to \$1665.00**

Supplier: **CVA Computer & Peripheral Sales**

Digiboard/ (Digicom/41 & 81)

On board co-processor with either four or eight RS232C asynchronous serial communications ports.

PC's: **IBM PC/XT/AT & compatibles**

Price: **\$1200.00 - \$2600.00**

Supplier: **CVA Computer & Peripheral Sales**

Easy LAN Com Port Board (2 Ports)

If your PC has only one serial port (COMM-1), this add-in board allows it to have two more, configured as Comm-2 and Comm-3. Designed primarily for use with EasyLAN but suitable for any add-on serial port task.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$537.00**

Supplier: **Software Corporation of Australia**

Easy LAN Com Port Board (6 Ports)

Adds six serial ports for multi-user applications.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$1095.00 including tax**

Supplier: **Software Corporation of Australia**

Essential C Comms

This is a library of communications functions written in C. Includes: Multiple Data Links, ring buffers, protocols, interrupt driven functions, XON/XOFF flow control and a comms. debugger. Functions feature high level programming functions, dynamic allocation of buffer space and the ability to be bundled with an application or installed as memory resident.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Baud Rate: **Baud-D**

Price: **\$497.00**

Supplier: **Fagan Microprocessor Systems**

Hostess 4 Port and 8 Port

External housing for easy maintenance and installation. This board is so popular that most operating systems have built in drives thus making operation/installation very easy. Full modem controls are available on all ports.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS and most multi-user**

Baud Rate: **Up to 118Kbit**

Price: **\$899.00 and \$1345.00 ex tax**

Supplier: **Worldwide Business Systems**

Hyperport

The Hyperport features a serial and a parallel port and a clock/calendar.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **DOS (PC/Microsoft)**

Price: **\$385.00**

Supplier: **Hypertec Pty Ltd**

IBM Communications Board

Allows PC to connect via RS232C to IBM Bisynchronous or SNA network.

PC's: **Unisys or IBM compatible PC**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Baud Rate: **Up to 19.2 kbps**

Price: **\$715.00**

Supplier: **Unisys**

IBM PC Binary Synch. Comms. Adaptor

The BSC Adaptor provides the ability to attach an IBM PC to a network using BSC protocols. It is used in conjunction with the IBM BSC 3270 Emulation Software. It features an RS232 interface and can communicate at up to 9600bps and control a modem. It provides prioritised interrupt system controls and complete status reporting.

PC's: **IBM PC/XT/AT**

Baud Rate: **9600**

Other Req.: **IBM BSC 3270 Emulation Software.**

Price: **P O A**

Supplier: **IBM**

IBM PC Convertible Serial/Parallel Port

This adaptor attaches to the 72-pin connection at the rear of the PC Convertible and provides RS232C asynchronous communication and a parallel printer interface. These are compatible with other IBM PC adaptors.

Attaching this does not prevent other options being attached to the Convertible.

PC's: **IBM PC Convertible**

Price: **P O A**

Supplier: **IBM**

IBM PC SDLC Com- munications Adaptor

The IBM PC SDLC Adaptor provides an RS232 interface to a network using SDLC protocols. It is used in conjunction with SNA 3270 Emulation Software. A 25-pin D type male connector is mounted on the rear of the board for external cabling.

PC's: **IBM PC/XT/AT**

Baud Rate: **9600**

Other Req.: **SNA 3270 Emulation software.**

Price: **P O A**

Supplier: **IBM**

MS400-XT Multi Serial Card

MS-400XT Multi Serial Card features: support for four RS232C Serial Ports (Tertiary and Fourth Serial Port are optional), short sized (4" x 5") fits any standard short slot. Full set accessory cables provided.

PC's: **IBM PC/XT and compatibles**

Price: **\$197.74 including tax**

Supplier: **Data Cable**

Metrabyte Data Ac- quisition Cards

Communication boards from PCs, XTs, ATs to peripheral devices and processing units.

PC's: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$200.00 - \$5000.00**

Supplier: **Pacific Data Corporation**

Multifunction Com- munications Adaptor

The Honeywell Multifunction allows any PC running the Honeywell Terminal Emulation to communicate via the following means: Asynchronous - RS232, RS422 or current loop Synchronous - RS232 Direct Connect or Modem Connect

PC's: **IBM PC/XT/AT & compatibles,**

Honeywell PC

Op. Sys.: **PC/MS-DOS 2.1 or higher**

Memory: **256k**

Storage Req.: **360k disk**

Other Req.: **Requires Honeywell terminal emulation.**

Price: **\$497.00**

Supplier: **Honeywell Information Systems**

Parallel to Serial Converter.

The Model 161 Parallel to Serial Converter converts centronic printer interface type data outputs to serial RS232 data format. The device requires no external power source as it is derived from the serial interface.
Baud Rate: **1200, 2400, 4800, 9600**
Price: **\$280.00**

Supplier: **Unique Micro Design Pty Ltd**

Persyst DCP-286 Comm. Co-Processor

Designed as Persyst's highest performing member of the DCP family of co-processors, the DCP-286 combines the flexibility of multi-protocol communications with the programming advantage of the Intel 80286

6MHz, or optional 8MHz, microprocessor. With 4 communications lines that support full or half-duplex and DMA, the hardware is capable of transferring data in burst mode at over 400kbits/sec with the 8MHz processor and the single line half-duplex rate is better than 1.5Mbits/sec.

PC's: **IBM PC/AT & compatibles**

Price: **P O A**

Supplier: **Emulex Corporation**

boards

112-bit A/D Converter Card

The multiplexer provides 16 channel input with an input impedance of 2.2kohms. A sample and hold circuit is used between the multiplexer and the A/D converter. Sampling rate can be determined by software clock or on board programmable timer. Sample rates from 1Hz - 30KHz can be achieved with software supplied.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Memory: **128k**
Storage: **64k or 320/360k floppy**
Other Req.: **Software supplied with card**
Price: **\$448.90 ex tax; \$678.50 incl tax**
Supplier: **Boston Technology Pty Ltd**

A/D & D/A 12-bit Converter

Boston Technology have a range of analogue to digital converters including a 16 channel, high speed, 12-bit A/D converter, two 12-bit and two 8-bit D/A converters, three 8-bit programmable I/O ports (TTL and CMOS compatible) with bipolar and unipolar operation. D/A conversion time is typically 1ms and provides conversion at rates from 1Hz to 30Hz. Turbo Pascal and Basic Software is included.
Machines: **IBM PC/XT/AT & compats**
Op. Sys.: **PC/MS-DOS**
Memory: **128k**
Storage: **64k or 320/360k floppy**
Other Req.: **Software supplied with card**
Price: **\$650.00 ex tax; \$746.50 incl tax**
Supplier: **Boston Technology Pty Ltd**

Analog & digital I/O board for Apple II

The APM-08 plugs directly into an Apple

II computer and provides 8 analog inputs, 2 analog outputs, 4 digital outputs, 3 digital inputs and event, period, pulse width and frequency counting. Software is included in an on board ROM. Applications include data logging, process control, signal analyser, robotics, energy management, product testing, digitisers and touch screens, laboratory and medical instrumentation etc. A 177 page handbook/catalogue is available free.

Machines: **Apple IIe**

Op. Sys.: **Apple**

Price: **\$972.00**

Supplier: **Novatech Controls (Australia) Pty Ltd**

Analog & digital I/O boards

Metabyte boards provide analog and digital signal interface to personal or any computer. Most common applications utilise plug-in boards although, boards can be external operating on the serial port. 55 different boards are available for various applications, including data logging, process control, signal analyser, robotics, energy management, product testing and chromatography. A 177 page handbook/catalogue is available free of charge.

Machines: **IBM PC/XT/AT & compatibles, VME BUS, Apple**

Op. Sys.: **PC/MS-DOS & others**

Other Req.: **Expansion slot some large, some small**

Price: **Start at \$283.00**

Supplier: **Novatech Controls (Australia) Pty Ltd**

Apple II SCSI Card

Used for connecting SCSI devices to the Apple II. Such devices as CD ROM and hard disks.

Machines: **Apple IIe, II Plus, IIGS**

Op. Sys.: **PRODOS**

Memory: **64k**

Price: **\$245.00 including tax**

Supplier: **Apple Computer Australia Pty Limited**

Atlantis Game Adaptor

The Atlantis Game Adaptor provides a 15-pin socket for connecting a joystick to the IBM PC/XT or compatibles. The card is fully IBM compatible and will run with all games software.

Machines: **IBM PC/XT & compatibles**

Price: **\$60.00 including tax**

Supplier: **Atlantis International Computers**

Hales & Rogers Pty Ltd

Hales & Rogers Parallel Interface

The Hales & Rogers PIO-1 is a plug-in board providing up to 44 general purpose digital input or output lines. Easy control is available with the software supplied. The PIO-1 will fit the "short" slots in IBM PC's, XT's or compatibles.

Machines: **IBM PC/XT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$380.00 ex tax**

Supplier: **Hales & Rogers Pty Ltd**

High Resolution & Chromatography Input

The Chrom-1 board can be used for high resolution analog voltage or chromatographic input to PCs. Resolution is one part in 20,000. Chrom and software available to form a fully integrated, high powered data acquisition and analysis system. Complete 177 page handbook/catalogue available free.

Machines: **IBM PC/XT/AT & compats.**

INTERFACE

Op. Sys.: **PC/MS-DOS**
 Other Req.: **One full length expansion slot**
 Price: **\$1465.00**
 Supplier: **Novatech Controls (Australia) Pty Ltd**

IBM Game Control Adaptor

This option allows user supplied joysticks or paddles to be connected to the IBM Personal Computer. The Game Control Adaptor is installed in one of the five system expansion slots.

Machines: **IBM PC**
 Price: **P O A**
 Supplier: **IBM**

IBM PC Data Acquisition & Control Adpтр.

The IBM PC Data Acquisition and Control Adaptor allows the IBM Personal Computer family (except the PCjr) to be used in scientific/industrial laboratory or FCC Class B setting for controlling processes, monitoring transducers and automating electronic testing. It features 4 input and 2 output analog channels (12-bit resolution), input and output digital ports (16 channel), a timer (32-bit) allowing programmable sampling rates.

Machines: **IBM PC/XT/AT & compatibles**
 Price: **P O A**
 Supplier: **IBM**

IBM PC Gen.Purpose Interface Bus Adaptor

The IBM PC General Purpose Interface Bus

Adaptor provides an interface between the IBM Personal Computer family (except the PCjr) and the IEEE-488 General Purpose Interface Bus (GPIB). This allows the IBM Personal Computer to control and access up to 14 devices or instruments (such as plotters, multimeters and disk devices).

Machines: **IBM PC/XT/AT & compatibles**
 Price: **P O A**
 Supplier: **IBM**

IEEE-488 Interface Board

The IE-488 and MBC-488 cards provide IEEE-488 (1978 spec.) communications with up to 15 devices simultaneously. Both can be operated in interrupt, DMA or normal transfer modes. Applications include interface with instruments, printers, plotters. They are used in laboratory automation and automated manufacturing testing. A 177 page handbook/catalogue is available free.

Machines: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Other Req.: **One expansion slot: long for IE-488 and short for MBC-488**
 Price: **MBC-488 \$677.00; IE-488 \$972.00**
 Supplier: **Novatech Controls (Australia) Pty Ltd**

MACE 48 IO

48 Digital I/O card with multiple address space links.

Machines: **IBM PC/XT/AT & compatibles**
 Price: **P O A**
 Supplier: **MACE Machine Division**

Mac 512k SCSI Adaptor

The SCSI Adaptor allows 512k Macintosh owners to operate SCSI devices such as the LoDown series of products. This product is Australian made and supported.

Machines: **Macintosh**
 Op. Sys.: **Macintosh**
 Price: **P O A**
 Supplier: **Symbiotic Computer Systems**

Process Control I/O Board

48 programmable I/O lines; 16 LED type displays; unidirectional and bidirectional bus; interrupt handling; handshaking; 3 independent programmable counter/timers; count rate up to 2MHz; software or hardware triggered count; binary or BCD.

Machines: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Memory: **128k**
 Storage: **64k or 320/360k floppy**
 Other Req.: **Software supplied with card**
 Price: **\$127.50 excluding tax; \$146.30 including tax**
 Supplier: **Boston Technology Pty Limited**

Reed Relay Output Board

16 independent SPST dry reed relay contacts; LED status display for each reed relay output; user selectable port address; software control; relay contact ratings 10W max, 150V dc max, 1.0A max. Multiple cards may be used in parallel, the operating time is 0.5ms max and all address, data and

"I chose Desk Mate, my personal computer, because it's so easy to use!"

I must admit I was totally baffled when the kids started talking about bits, bytes and floppies — the only way for me to keep up was to get involved.

I chose Desk Mate, first because it's so simple, second because it's so versatile, and third because it's so much fun.

Can't wait to show the kids my new programme.

DESK MATE

"My Personal Computer"

For a personal discussion on how Desk Mate can work for you phone (07) 356 7866 or call into 16-20 Edmondstone St, Newmarket Qld 4051.

Manufactured by UNI-X Pty. Ltd.



control signal is TTL compatible.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage: **64k or 320/360k floppy**

Other Req.: **Software provided**

Price: **\$395.00 excluding tax; \$454.00 including tax**

Supplier: **Boston Technology Pty Ltd**

Stepper Motor Controller Board

The MStep-5 provides 2 axis stepper motor and shaft encoder motion control. Stepper motors may be moved any number of steps up to 24 bits of resolution (16, 777, 216 steps). Applications include XY table control, spectrophotometry control, fluid &

flow controllers, optical scanners, robotics and assembly equipment. A 177 page handbook/catalogue is available free.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Other Req.: **One long expansion slot**

Price: **\$1465.00**

Supplier: **Novatech Controls (Australia) Pty Ltd**

PROTOTYPING

100MHz Logic Adaptor

Menu selection for setting up card; features selected by means of function card; internal or external clock source; 8 internal clock rates; 7 external clock rates; rising or falling edge clocking. Threshold voltage set as TTL, ECL or variable; trigger word of up to 24-bit selected; 24 channel logic pod with probes.

Machines: **IBM PC/XT/AT & compats**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage: **64k or 320/360k floppy**

Other Req.: **Software provided**

Price: **\$1050.00 excluding tax; \$1281.00 including tax**

Supplier: **Boston Technology Pty Ltd**

IBM PC-AT Prototype Adaptor

The IBM Personal Computer AT Prototype

Adaptor is provided for use as a base for building and testing custom hardware for the IBM Personal Computer AT. It is a full standard width two card edge tabs, one 2 x 31 and one 2 x 18 positions that provide all system control signals and voltages. Each bus borders the adaptor. A system interface (wiring only) is also provided with a space to specify 8 or 16-bit data channels.

Machines: **IBM PC/AT**

Price: **P O A**

Supplier: **IBM**

IBM Prototype Card

The Prototype Card may be used on the IBM Personal Computer as a base for building and testing custom attachments to the system. It is a full length card which includes circuitry and module holes for interface with the IBM Personal Computer Bus and detailed instructions and component identifications for I/O decode at-

tachment logic.

Machines: **IBM PC**

Price: **P O A**

Supplier: **IBM**

Prototyping Card

Wire wrapped sockets allow circuit to be easily altered; 8 chip select lines; extensive timing information provided; 3000 on board component points; 8 address decoding lines and provided for direct interfacing. IBM Bus Lines A0, A1 reset, IOW, IOR, MEMW, MEMR and DO-D7 buffered.

Machines: **IBM PC/XT/AT & compatible**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage: **64k or 320/360k floppy**

Price: **\$154.60 excluding tax; \$180.00 including tax**

Supplier: **Boston Technology Pty Limited**

GENERAL

Advance Add-On Cards

Advance Peripherals supply a comprehensive range of add-on cards, including multi-function family, multi I/O connections, video connection, memory expansion solutions and disk/tape controllers.

Machines: **IBM PC/XT/AT & compats**

Op. Sys.: **PC/MS-DOS 2.0/3.0**

Price: **P O A**

Supplier: **Advance Peripherals Pty Ltd**

American Business Computers

A full range of interface boards for all

types of XT and AT clones.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **P O A**

Supplier: **American Business Machines**

Cylock Data Security System

The Cylock expansion board uses 1 full size slot and protects programs and data from illegal use.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **64k**

Price: **\$1000.00**

Supplier: **Anchor Pad (Australia) Pty Ltd**

Dataland

Dataland provide a range of cards for IBM compatible PCs. These include parallel cards, serial/async cards, multifunction cards, network cards, mono/prINTER card, Hercules compatible cards, colour graphics cards and Apple compatible cards.

Price: **\$59.00 to \$799.00**

Supplier: **Data Parts**

Hardware add-ons, accessories: Apple IIs

80 column card (II+) - 89.95

Wide Area Networking for the corporate P.C.

Expand your LAN's capability to connect to your IBM host

G/SNA provides a high-speed LAN to Mainframe Gateway without dedicating a P.C.

- G/SNA offers superior cost-effectiveness compared to traditional micro-to-mainframe links.
- With a single card and software, up to 32 P.C.'s on a LAN can access your IBM host, at one time.
- Operating over dial-up, leased, point-to-point and multi-drop lines at speeds of up to 56kbps, you can continue to experience the flexibility of using a P.C. and add the wealth of data available from your host.
- G/SNA won't deplete your computer resources. Each board has its own 80186 CPU and 512 kB dual-ported RAM.
- Cancel unnecessary hardware costs. G/SNA emulates a 3275 cluster controller and 3270/3770 terminals.

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GENERAL

Ext 80 column card - \$69.95
16K RAM card - \$59.95
Pal colour card (II+) - \$64.95
Grappler/Printer card - \$69.95
Speech card - \$59.95
Clock card - \$169.95
Multiram CX card (IIC) - \$549.00
Z80 card - \$60.00
Machines: **Apple II range & compatibles**
Price: **P O A**
Supplier: **Applix Pty Ltd**

IBM Compatible Boards

Electronic Solutions have a large range of 'add on' boards for IBM compatible computers. They range from floppy disk controllers, memory boards, multifunction boards to chassis and power supplies. These would enable a technical person to completely assemble an IBM compatible computer if he/she required.

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Memory: **128k**
Price: **\$100.00 - \$1000.00**
Supplier: **Electronic Solutions Pty Limited**

Persyst IBM Enhancement Boards

IPL Datron has stock of all latest Persyst boards. Ring for prices and your nearest dealer.

Machines: **IBM PC/XT/AT & most compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **P O A**
Supplier: **IPL Datron**

dBASE PROGRAMMING

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MULTI USER SYSTEMS

**INEXPENSIVE PC
COMPATIBLE HARD-
WARE AVAILABLE.**

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WE PROVIDE A TOTAL SOLUTION



Dear Sir,

Actual unretouched photo – 9 pin printer

Make your first impression
more impressive.

Dear Sir,

Actual unretouched photo – Toshiba 24-pin printer

Everybody knows the importance of making a good first impression.

The first impression most people have of your company is the correspondence they receive from you.

But have you looked recently at just how impressive those letters are? If you've had your printer for a while, chances are that it's not up to scratch.

If you want to make the best possible impression, it makes sense to talk to the people who know most about printers (after all, Toshiba were the inventors of 24-pin technology).

You'll have the choice of a range of printers with a selection of font styles and sizes, paper feeds and loading, and a range of prices. In fact, about all they have in common is their technological superiority, compatibility with major PC brands, and their legendary Toshiba reliability.

There are four printers in the Toshiba 3-in-One range (fast drafts, letter quality and graphics) printers:

P351 – the industry standard setter. Compatibility with just about all IBM software, high speed printing at 300 characters per second. Letter quality printing at 100 characters per second with ten fonts selectable from the

front panel. An extra 45 fonts are accessible through font cartridges and downloadable font disks. Superb graphics, automatic paper loading.

P351C – Speed, quality and colour. Super high speed printing at 288 characters per second, letter quality printing. Graphics in colour, great for presentations.

P341e – An economical wide carriage printer with high speed printing and automatic paper loading, from A4 to A3. Letter quality printing at 72 cps, plus graphics and high speed drafts at 216 cps.

P321 – Perfectly formed letters, excellent graphics at high speed in a compact, economical printer. A great personal productivity printer with automatic paper loading and print speeds from 72 cps to 216 cps.

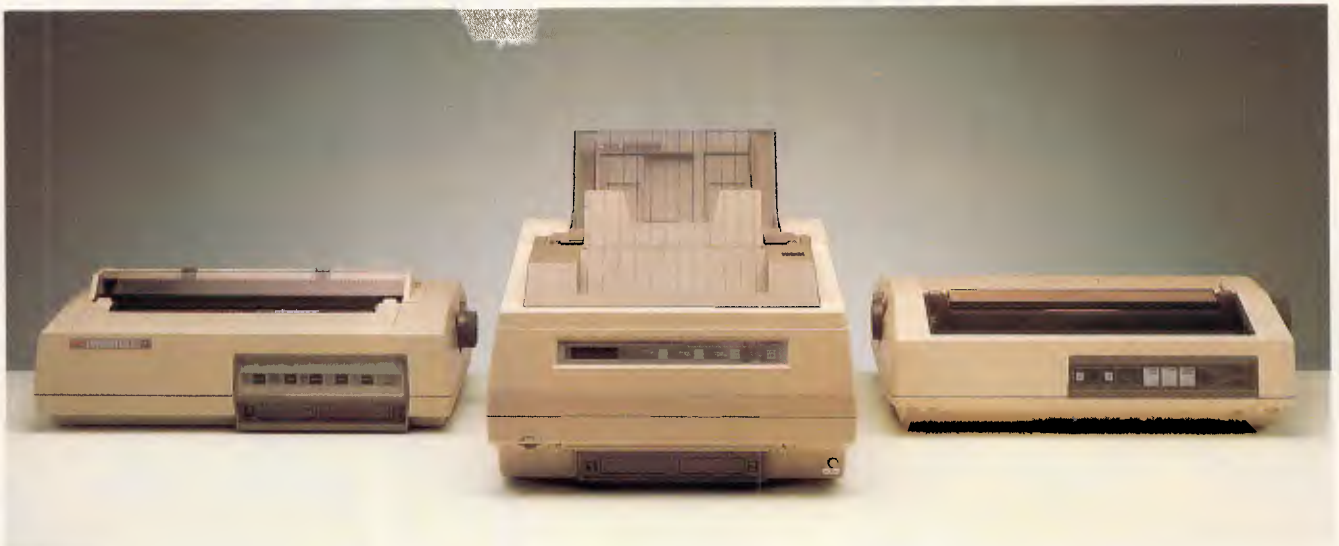
Toshiba printers – one less thing to go wrong.

Printers from **TOSHIBA**

Toshiba (Australia) Limited, Computer Products Division,
84–92 Talavera Road, North Ryde, N.S.W. 2113. (02) 887 3322.
Melbourne (03) 566 1700, Brisbane (07) 352 9888,
Canberra (062) 80 5100.

IF YOU'RE STILL TRYING TO DECIDE
WHICH PRINTER TO BUY, CONSIDER THIS:

WE DIDN'T GET TO BE NUMBER ONE
IN THE MARKET* BY
MAKING JUST ONE KIND OF PRINTER.



NEC is the market leader when it comes to quality desktop printers. For good reason.

Not only do we offer the best combination of speed, quality, quiet operation and the widest selection of paper handling options, we also offer you the best choice of models.

Our Spinwriters, for example, provide letter perfect printing at an affordable price. While our Dot Matrix Pinwriters give you 24-pin quality at a 9-pin price. And our new Silentwriters utilize superior technology for fast, laser quality printing.

So, before you choose a printer, remember, we didn't get to be market leader for nothing.

See your computer printer dealer now or phone NEC Information Systems Australia Pty Limited for your nearest dealer location.

Sydney (02) 438 3544, Melbourne (03) 267 5333, Brisbane (07) 52 8544, Adelaide (08) 223 6700, Perth (09) 325 6988, Canberra (062) 51 4611 and Auckland, New Zealand (09) 391 449.

NEC

*Source: Compass Research:
Micro Storeboard 1985 and 1986. Retail Sales (\$ value.
LINTAS NEC 3083

Printers and Plotters

Without doubt, laser printers are the big area of expansion in the printer market. They meet the requirements for fast letter quality printing, about 6 to 8 pages per minute, and also combine nicely with two proliferating areas of software, graphics and desktop publishing.

They are still three or four times the price of a daisywheel printer or good quality dot matrix printer but they are moving into the office market in a big way. There are still some limitations. Laser printers can only accept limited paper sizes and they cannot print continuously for too many hours. These problems will no doubt be overcome as demand for them increases.

Daisywheel printers are still a relatively inexpensive method of getting letter quality print, but are incredibly slow compared to some of the new printing devices being produced. It is interesting that a very small number of suppliers have actually listed daisywheel printers with us, suggesting that they are, perhaps, pushing their other lines instead.

Engineers and other Computer Aided Design users need high quality plotters and these are getting very sophisticated indeed.

Resolutions of 0.0125mm are not un-

common. Many of these plotters can send a pen to a point within one resolution and once there can move about with a different degree of accuracy. These are respectively, the addressing or positioning resolution and the drawing resolution. Colour is usually obtained by the use of multiple pens.

For some applications requiring colour, a colour dot matrix printer may be sufficient: Resolutions are as high as four hundred dots an inch (.0625mm) in some dot matrix printers. Please refer to the article about peripherals at the beginning of this Guide where this subject is dealt with in more detail.

There are a large number of software utilities for driving your dot matrix further, providing it with proportional spacing, large numbers of fonts and graphics capabilities. You will find a number of these software utilities listed in the companion directory, the *APC Buyers Guide to Software*. They are part of a general movement toward better presentation that also takes in the desktop publishing and form design packages.

With a laser printer, a whole page is designed at once: fonts are created, proportional spacing performed and any graphics mapped out

at the same time. This is under the control of a page description standard. Many entries in the Laser Printers and Plotters section refer to the page description or graphics languages supported. A postscript printer, for example, the Apple LaserWriter, is one that designs the page under the control of the Postscript language.

In a busy office simply printing huge volumes of paper may only be the beginning of a large job. All the various parts of a print run have to be collated, sorted and put into envelopes or filed away. There are devices that attach to printers to assist in this type of function.

Many types of paper feeders are available. For example, some allow the word processing document to specify that it wants letterhead on page one and plain paper for all the other pages. Burstlers deal with multiple copy stationery, decollators with continuous stationery, separating the sheets and pages respectively.

Also in this section there are devices which allow you to attach a printer to your system not designed for it. These are well worth looking at if a printer that is not compatible with your computer interests you.

PRINTER PRECISION

If you're after quality at an affordable price, the range of Super 5 printers are for you. Others may have the name, Super 5 has the performance: Superior letter quality, tractor feed, sturdy metal chassis.

Ask to see the range of Super 5 add-on cards as well as printers at your Super 5 dealer today.



Super 5

Multitech
COMPUTERS

Authorised Super 5 distributor
and service agents.
Telephone (03)3383911

Brother HR 10 Printer

Technology: Daisywheel
 Speed: 12cps
 Buffer: 100 bytes
 Character Sets: 96 characters/wheel cassette type
 Interfaces: Centronics/RS232C
 Feed Options: Bidirectional friction platen/tractor
 Print positions: 12 & 10 pitch
 Paper width: 10"
 Price: \$599.00 including tax
 Supplier: Pacific Data Corporation

Brother HR 20 Printer

This printer has an optional keyboard.
 Technology: Daisywheel
 Speed: 20cps
 Buffer: 8k (16k optional)
 Character Sets: 96 character cassette daisywheel
 Interfaces: Centronics/RS232C
 Feed Options: Friction/Tractor/Cut Sheet
 Print positions: 10 and 12 pitch
 Paper width: 14.5
 Price: \$999.00 including tax
 Supplier: Pacific Data Corporation

Brother HR 35 Printer

Technology: Daisywheel
 Speed: 36cps
 Buffer: 7k
 Character Sets: 96 characters/wheel cassette type
 Interfaces: Centronics/RS232C
 Feed Options: Friction/Tractor/Cut Sheet
 Print positions: 10 & 12 pitch
 Paper width: 16.5
 Price: \$1695.00 including tax
 Supplier: Pacific Data Corporation

Citizen Premiere 35

The printer contains a printer status and real-time clock for date stamping documents. Errors are displayed on LCD display panel. Carriage movement is bidirectional, logic seeking, or unidirectional through software or switch selection. Diablo compatible ribbons. Optional single and dual bin feeder.
 Technology: Fully formed impact with daisywheel.
 Speed: 35cps
 Buffer: 8k
 Character Sets: All Diablo compatible printwheels
 Interfaces: Centronics/RS232C
 Feed Options: Push/pull tractor, sheet
 Paper width: 16.5"
 Compatibility: Diablo 630, Qume Sprint II, NEC 3550
 Price: \$1550.00 ex tax
 Supplier: Datronics Corporation Ltd

Digital LQP03

Low cost letter quality printer designed for use with all digital PC's, word processors and video terminals.
 Technology: Daisywheel
 Speed: 25cps
 Buffer: 256 chars
 Character Sets: 6
 Interfaces: Serial
 Feed Options: Continuous and single sheet
 Print positions: 110
 Paper width: 12"
 Compatibility: Digital
 Price: \$1540.00
 Supplier: Mitsui Computer Limited

Primage 90

The new high speed primage 90 Daisy printer and pagemate 111 sheet feeder offer letter quality printing with a speed of up to 90cps and extremely quiet operation.
 Technology: Daisy Printer
 Speed: 90cps
 Buffer: 2k
 Character Sets: 96 ASCII (140 printable)
 Interfaces: RS232/Centronics
 Feed Options: Friction single sheet, cut sheet option
 Paper width: 16.5"
 Compatibility: RS232/Centronics
 Price: \$2100.00
 Supplier: Kenelec Pty Ltd

Qume Sprint 11/55

High speed, letter quality text printer. Suitable for continuous and multi-part forms printing. Low per copy cost. 5500 hour MTBF rating.
 Technology: Daisywheel
 Speed: 55cps
 Character Sets: More than 100 available
 Interfaces: RS232C up to 9600bps/Centronics
 Feed Options: Friction/Tractor/1-3 Bin sheet feeders
 Print positions: 132 @ 10 pitch
 Paper width: 15"
 Compatibility: various
 Price: \$3702.00 including tax
 Supplier: Sigma Data Corporation

Qume Sprint 11/55 Plus

45 cps daisywheel printer; utilising full range of Qume printwheels. Interface is a plug-in module; can be changed to suit operational environment. Prints at 10, 12, & 15 pitch.
 Technology: Daisywheel/impact

Speed: 55 NLQ
 Buffer: 2k
 Character Sets: 96 characters
 Interfaces: Qume, RS232, Centronics
 Feed Options: Forms tractor, single & multiple sheet
 Paper width: 15"
 Price: \$3437.00
 Supplier: Standard Telephones & Cables

Qume Sprint 11/90

High speed, letter quality text printer. Suitable for continuous and multi-part forms printing. Low per copy cost. 5500 hour MTBF rating
 Technology: Daisywheel
 Speed: 90cps
 Character Sets: More than 100 available
 Interfaces: RS232C to 9600bps/Centronics
 Feed Options: Friction/Tractor/1-3 Bin sheet feeders
 Print positions: 132 @ 10 pitch
 Paper width: 15"
 Compatibility: various
 Price: \$5308.00 including tax
 Supplier: Sigma Data Corporation

Qume Sprint 11/90 Plus

90 cps daisywheel printer, utilizing a full range of Qume daisywheels. Interface is a plug in module, can therefore be changed to suit the operational environment. Prints at 10, 12 & 15 pitch.
 Technology: Daisywheel/impact
 Speed: 90cps NLQ
 Buffer: 2k
 Character Sets: 96 characters
 Interfaces: Qume, RS232, IBM Centronics
 Feed Options: Forms tractor, single & multiple sheet
 Paper width: 15"
 Compatibility: PC or any serial port
 Price: \$4268.00
 Supplier: Standard Telephones & Cables

Ricoh RP3400

High speed letter quality daisywheel printer with full Diablo compatibility.
 Technology: Daisywheel
 Speed: 52cps
 Buffer: 7k
 Character Sets: Diablo D/Wheels
 Interfaces: Both Serial and Parallel
 Feed Options: Continuous sheet and dual sheet
 Paper width: 16.5"
 Price: \$2750.00
 Supplier: Mitsui Computer Limited

300cps - And a colour option too!

AWA MP1300AI

Meet the latest addition to the AWA Seikosha printer range. The MP-1300 AI and MP5300AI offer PC users a whole new performance capability at a surprisingly low price. Both are IBM-PC and Epson compatible and you can upgrade the MP-1300 AI to colour at low cost.

- 300cps (draft), 50cps (NLQ).
- Impact dot matrix (9 pin Bi-directional logic seeking).
- IBM-PC and Epson compatible.
- Front panel margin setting.
- Download characters.
- Easy-to-Handle optional seven colour printing kit.
- Optional automatic cut sheet feeder.
- 2 standard interfaces (Centronics Parallel and RS-232C Serial).



Amalgamated Wireless (Australasia) Limited
(Incorporated in New South Wales)

Sydney (02)887 7111 Melbourne (03)560 4533 Brisbane (07)371 4088
Adelaide (08)333 2044 Perth (09)321 9334 Canberra (062)73 1802

3000 Series

3000 series includes a family of medium and high speed dot matrix printers providing solutions for word processing, business applications and data processing. The 3000 series includes the 3210 - 240/60cps NLQ; 3310 - 300/75cps NLQ; 3320 - 300/150cps NLQ; 3410 - 400/100cps NLQ.

Technology: **Matrix Desktop**

Buffer: **512k - 8k**

Character Sets: **96 ASCII plus 16 national sets**

Interfaces: **Centronics/RS232 standard**

Feed Options: **Cut sheet dual pin feeders, continuous**

Print positions: **136 column**

Paper width: **3.5" - 15.5"**

Price: **\$2676.00 - \$4915.00 excluding tax**

Supplier: **Genicom (Australia) Pty Ltd**

4000 Series

The 4000 series features fast, quiet performance and is designed for information processing and business computing systems. The 4000 series is designed for heavy duty cycle operations. The advanced resonant shuttle printing mechanism is perfectly balanced, innovative in design and free of moving parts that normally break down, minimising preventative maintenance.

Technology: **Shuttle matrix line**

Matrix: **9 x 9; 9 x 18**

Speed: **400/800wpm**

Character Sets: **4 plus 16 international sets**

Interfaces: **Parallel Printronix, RS232, Centronics +**

Feed Options: **Continuous**

Paper width: **3" - 16.5"**

Price: **\$10916.00 - \$16831.00 excluding tax**

Supplier: **Genicom (Australia) Pty Ltd**

AMT Matrix Printer

Multi-purpose matrix system suitable for word processing, data processing and graphics applications. Has multiple on-line font capability and can be configured to emulate many common printer command sets. Allows mixing of text and colour graphics in a single pass.

Technology: **High resolution matrix**

Resolution: **240 x 480 dpi**

Matrix: **8 x 30, 16 x 72, 32 x 72**

Speed: **250/100/45**

Buffer: **8k, expandable to 40k**

Character Sets: **various**

Interfaces: **RS232C to 19.2kbps, Centronics**

Feed Options: **Friction/tractor/1-3 bin sheet feeders**

Print positions: **up to 264/line**

Price: **\$4148.00 including tax**
Supplier: **Sigma Data Corporation**

BP5420A/I, BP5200A

Full word processing capabilities incorporating proportional, elongated, condensed and italic character sets, with super/subscripts, underlining, bold and double strike capabilities. Optional interfaces include IBM TWINAX, IBM COAX, UNIVAC UTS, DEC LA120 and WANG COAX. Front panel font and paper length selection. Graphics capabilities.

Technology: **8-pin Dot Matrix**

Matrix: **12 x 8 draft, 24 x 16 NLQ**

Speed: **420 and 104**

Buffer: **18k**

Character Sets: **Pica, Elite, Italic**

Interfaces: **Parallel and RS232**

Feed Options: **Friction/tractor standard, cut sheet opt**

Print positions: **136 @ 10cpi**

Paper width: **15.5"**

Compatibility: **Epson FX and IBM PC**

Price: **\$3600.00**

Supplier: **AWA Information and Control Division**

Brother 2024L Printer

Technology: **Impact dot matrix**

Resolution: **Graph 180dpi, normal 60dpi**

Speed: **160/96cps**

Buffer: **1.8k**

Character Sets: **13**

Interfaces: **Centronics/RS232C**

Feed Options: **Friction, pin feed, cut sheet**

Paper width: **15"**

Price: **\$1495.00 including tax**

Supplier: **Pacific Data Corporation
Eastern Micro Electronics**

Brother M1109 AP Printer

The Brother M1109 AP prints characters bidirectionally and bit images in one direction. 7 alternate language character sets are supported.

Technology: **9-pin impact dot matrix**

Speed: **75/19cps**

Buffer: **3k**

Character Sets: **8**

Interfaces: **RS232C**

Feed Options: **Friction or pin feed**

Paper width: **10"**

Compatibility: **All including Apple**

Price: **\$649.00 including tax**

Supplier: **Pacific Data Corporation
Microbee Systems Limited
Eastern Micro Electronics**

Brother M1109 Printer

The three character sets are the ASCII 96

character set, the International 43 character set and the IBM PC 64 character set.

Technology: **Impact Dot Matrix**

Matrix: **Serial Impact Matrix 9-pin**

Speed: **100/25cps**

Buffer: **2k input buffer**

Character Sets: **3**

Interfaces: **Centronics/RS232C**

Feed Options: **Friction feed, pin feed tractor**

Paper width: **10"**

Price: **\$549.00 including tax**

Supplier: **Pacific Data Corporation
Eastern Micro Electronics**

Brother M1409 Printer

This is a bidirectional logic seeking printer.

Technology: **9-pin impact dot matrix**

Resolution: **42dpi (normal) 165dpi (graphics)**

Speed: **180/45cps**

Buffer: **3Kb (16Kb optional)**

Character Sets: **ASCII-96, International-43, IBM PC-64**

Interfaces: **Centronics/RS232C**

Feed Options: **Friction, pin feed, cut sheet**

Paper width: **Fanfold 5"-13", cut sheet 4"-13.9"**

Compatibility: **IBM, Epson**

Price: **\$799 including tax**

Supplier: **Pacific Data Corporation**

Brother M1509 Printer

Technology: **Impact dot matrix**

Resolution: **Graph 165dpi, Norm 42dpi**

Speed: **180/45cps**

Buffer: **3k (Optional 16k)**

Character Sets: **ASCII-96, International-43, IBM PC-64**

Interfaces: **Centronics/RS232C**

Feed Options: **Friction, pin feed, cut sheet**

Paper width: **Fanfold 5"-16", Cut sheet 5"-16.5"**

Compatibility: **Epson, IBM**

Price: **\$999.00 including tax**

Supplier: **Pacific Data Corporation
Eastern Micro Electronics**

Brother M1709 Printer

A special feature of the M1709 is paper parking. This allows you to 'park' the fan-fold paper in place while feeding in cut sheets.

Technology: **Impact dot matrix**

Resolution: **Graph 8 x 3264, normal 8 x 816**

Speed: **240/50cps**

Buffer: **24k (40k optional)**

Character Sets: **ASCII-96, International-43, IBM PC-64**

Interfaces: **Centronics/RS232C**

QuadLaser™ draws circles around the competition.



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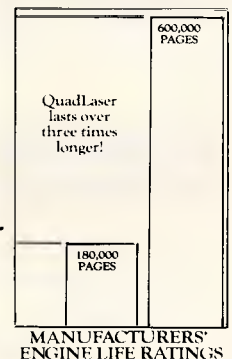
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Feed Options: Friction, pin feed, cut sheet
Paper width: Fanfold 4.1" - 16", Cut sheet 4" - 16.5"

Compatibility: Epson, IBM

Price: \$1245.00 including tax

Supplier: Pacific Data Corporation
Eastern Micro Electronics

Centronics GLPII

A pin dot matrix printer designed for ease of operation and low cost, the GLP has 'clean hands' ribbon cassettes and operator replaceable print heads.

Technology: 9-pin Dot Matrix

Resolution: 240dpi

Speed: 100/25

Interfaces: Centronics/RS232

Feed Options: Friction & Pin

Print positions: 80 normal/137 condensed

Paper width: 9"

Compatibility: Epson FX

Price: \$489.00

Supplier: Barson Computers Australasia Pty Limited

Centronics Printstation 220

A 9-pin dot matrix printer.

Technology: Dot Matrix 9-pin

Resolution: 240

Speed: 180/45

Character Sets: ASCII 96 & 133 IBM

Interfaces: Centronics/RS232

Feed Options: Continuous and cut

Print positions: 136 normal, 272 condensed

Paper width: 15"

Compatibility: Epson FX

Price: \$995.00

Supplier: Barson Computers Australasia Pty Limited

Centronics Printstation 240

A 24-pin head dot matrix printer.

Technology: 24-pin Dot Matrix

Resolution: 180dpi

Speed: 160/80

Character Sets: Pica, Elite, prop.

Interfaces: Centronics, (RS232 optional)

Feed Options: Cut & continuous

Print positions: 136

Paper width: 15"

Compatibility: Epson FX & Diablo 630

Price: \$1495.00

Supplier: Barson Computers Australasia Pty Limited

Centronics Printstation 260

A 9-pin head dot matrix printer.

Technology: 9-pin Dot Matrix

Speed: 200/40

Buffer: 2k

Character Sets: Courier, Elite, Pica

Interfaces: Centronics/RS232

Feed Options: Cut and continuous

Print positions: 136

Paper width: 15"

Compatibility: Diablo 630, IBM, Epson FX

Price: \$2595.00

Supplier: Barson Computers Australasia Pty Limited

Citizen LSP-120D

Tractor and single sheet guide included in price. Plug-in interfaces. User replaceable print-head. Character sets: ASCII standard, ASCII italic, international standard, international italic, graphic mode standard, graphic mode IBM, super/subscript mode, NLQ.

Technology: 9-pin printhead impact dot matrix

Matrix: 9x9, 18x9, 9x18, 18x18, 6x8, 17x17

Speed: 120/25cps

Buffer: 4k

Character Sets: IBM, Epson

Interfaces: Centronics/RS232C

Feed Options: Back & bottom pull tractor, single sheet

Paper width: 10"

Compatibility: IBM, Epson

Price: \$510.00 ex tax

Supplier: Datronics Corporation Ltd

Citizen MSP-20

Low profile push tractor printer with optional auto sheet feeder. User replaceable printhead. Epson compatible ribbons. Proportional spacing for typeset, justified appearance. All features selectable through software and some switches also. Also available as a 15" wide printer - MSP25, \$1350.00 ex tax.

Technology: 9-pin impact dot matrix

Matrix: 9x9, 18x9, 9x18, 18x18, 6x8, 17x17

Speed: 200/50cps

Buffer: 8k

Character Sets: Epson & IBM

Interfaces: Centronics/RS232C

Feed Options: Push tractor

Paper width: 10"

Compatibility: IBM, Epson

Price: \$950.00 ex tax

Supplier: Datronics Corporation Ltd

Citizen MSP10

Low profile push tractor printer with optional auto-single-sheet feeder. User replaceable printhead. Epson compatible ribbons. All features are selectable through software and some through switches also. Also available as a 15" wide printer - MSP15, \$990.00 ex tax.

Technology: 9-pin impact dot matrix
Matrix: 9x9, 18x9, 9x18, 18x18, 6x8, 17x17

Speed: 160/40cps

Buffer: 1k standard, 8k optional

Character Sets: IBM, Epson

Interfaces: Centronics/RS232

Feed Options: Push tractor

Paper width: 10"

Compatibility: IBM, Epson

Price: \$790.00 ex tax

Supplier: Datronics Corporation Ltd

DL2600

The DL2600 is a high-speed 24-pin printer with an automatic sheet load facility and a 16 digit LCD operator display for easy selection of printer functions and multi-emulation selection. The lower speed DL2400 (216/72) is also available, as is a colour version.

Technology: Dot Matrix

Resolution: 180 x 360dpi

Matrix: 24-pin

Speed: 288/80

Buffer: 8k

Character Sets: ASCII/IBM

Interfaces: Serial/Parallel

Feed Options: Tractor/friction/auto cut sheet

Print positions: 136 @ 10cpi

Paper width: 16.5"

Compatibility: Diablo D630/IBM

Graphics

Price: P O A

Supplier: Fujitsu Australia Limited

DL3300

The DL3300/DL3400 24-pin printers are fully compatible with industry standard emulations and offer long life printheads, standard tractor feed, optional fonts and variable size buffer. Multiple copies and low noise are further features of these products. Colour option also available. The 3400 prints at 240/60 cps.

Technology: Dot Matrix

Resolution: 180 x 360

Matrix: 24-pin

Speed: 324/54

Buffer: 8k

Character Sets: ASCII

Interfaces: Serial/Parallel

Feed Options: Tractor/friction/sheet feed

Print positions: 80 @ 10cpi

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FUJITSU

Paper width: 10.5"
 Price: P O A
 Supplier: Fujitsu Australia Limited

DS-180

This dot matrix printer, bi-directional at 180cps. Dot addressable graphics, 9 wire printhead rated at a life of over 500 million characters.

Technology: **Dot Matrix**
 Resolution: **9 x 7 Matrix at 180cps**
 Matrix: **9 x 7 high res. dot addressable graphic**
 Speed: **180cps high res.**
 Buffer: **4k**
 Interfaces: **RS233/Centronics**
 Feed Options: **Tractor bottom/front feed**
 Print positions: **132 @ 10cpi**
 Paper width: **3" - 15"**
 Compatibility: **General**
 Price: **\$2120.00**
 Supplier: **Kenelec Pty Ltd**

DS-220

Bi-directional multi-mode printing draft @ 220cps, memo @ 90cps, WLQ @ 40cps. Epson emulation for compatibility with virtually all popular personal computer software. Diablo 630 compatibility word processing.

Technology: **Dot Matrix**
 Resolution: **9 x 7 matrix at 180cps**
 Matrix: **9 x 7 high res. dot addressable graphics**
 Speed: **220/90cps**
 Buffer: **4k**
 Interfaces: **RS232/Centronics**
 Feed Options: **Tractor bottom/top**
 Print positions: **132 at 10cpi**
 Paper width: **3" - 15"**
 Compatibility: **General**
 Price: **\$2585.00**
 Supplier: **Kenelec Pty Ltd**

DSE 130 Dot Matrix Printer

Emulates IBM Graphic printer. Prints from 5 to 17cpi. 130cps print speed at 10cpi, supports underlining, bold, super/sub scripting, all printer features can be software selected and all dip switches are located conveniently on the top panel.

Technology: **IBM Graphics printer compatible**
 Resolution: **8 x 1920dpi**
 Matrix: **9 x 9**
 Speed: **130cps**
 Buffer: **2k Standard, 2k Optional**
 Character Sets: **256 Expanded ASCII**
 Interfaces: **Parallel/Centronic**
 Feed Options: **Adjustable sprocket and friction**

Paper width: **254mm wide**
 Compatibility: **IBM Graphics printer**
 Price: **\$549.00 ex tax**
 Supplier: **Dick Smith Electronics Pty Ltd**

DX2100

DX2000 Series (DX2100/ 2200/ 2300/ 2400). The DX2000 Series of 9-pin dot matrix printers from Fujitsu offer quiet printing (55dBA). Features include the ability to use cut sheets without removing continuous stationary and easy installable colour option. The DX2200 is a similar machine and takes 16.5" paper. The DX2300 and the DX2400 print at 324 and 55cps. The 2300 takes 10.5" paper and the 2400 takes 16.5".

Technology: **Dot Matrix**
 Resolution: **144 x 240**
 Matrix: **9-pin**
 Speed: **220/44**
 Buffer: **8k**
 Character Sets: **ASCII/IBM**
 Interfaces: **Serial/Parallel**
 Feed Options: **Tractor/friction/sheet feed**
 Paper width: **10.5"**
 Price: **P O A**
 Supplier: **Fujitsu Australia Limited**

Dacos VP 1814-180cps Dot Matrix

High-speed, low-energy consumption. 180cps, 9 wire dot head. Pica, elite, double-width (pica + elite), double-width condensed characters can be mixed in the same line with both proportional and italic. The Dacos VP1814 has emphasised and double print modes. It is bidirectional in text mode and both download and input buffer functions can exist simultaneously.

Technology: **Dot Matrix**
 Resolution: **8 x 1920**
 Matrix: **Draft-9 x 9, NLQ-18 x 20**
 Speed: **180/36**
 Buffer: **7k input buffer**
 Character Sets: **96 ASCII, symbols, 11 foreign languages**
 Interfaces: **Centronics, optional RS232C**
 Feed Options: **Adjustable tractor/friction.**
 Print positions: **40 - 136**
 Paper width: **10"**
 Compatibility: **IBM and Epson control codes**
 Price: **\$559.41 including tax**
 Supplier: **Data Cable**

Dataproduct 8010/8012

Heavy duty high print quality dot matrix printer: MTBF 500 hours at 100% duty cycle @ 100% print densities.
 Technology: **Dot Matrix**

Resolution: **84 x 84, 168 x 84dpi**
 Matrix: **9 x 9, 24 x 9, 38 x 18**
 Speed: **180/90/30(NLQ)cps**
 Buffer: **2k**
 Character Sets: **7 international**
 Interfaces: **8010-Serial/Centronics; 8012-centronics**
 Feed Options: **Friction and pin feed combined**
 Print positions: **80 @ 10**
 Paper width: **11.5" maximum width**
 Price: **\$950.00 ex tax**
 Supplier: **Dataproducts Corporation**

Dataproduct 8050/8052

Excellent print quality both mono/color text and graphics. Automatic sheet feeder option.

Technology: **Dot Matrix mono and colour**
 Resolution: **84 x 84, 168 x 84dpi**
 Matrix: **18 x 9, 24 x 9, 36 x 18**
 Speed: **200, 110, 40(NLQ)cpi**
 Buffer: **5k (8050), 4k (8052)**
 Character Sets: **7 internationals**
 Interfaces: **Centronics (both), Serial (8050)**
 Feed Options: **Friction and pin feed combination**
 Print positions: **132 @ 10cpi**
 Paper width: **15.5" wide**
 Price: **\$2850.00 mono, \$2995.00 colour**
 Supplier: **Dataproducts Corporation Sigma Data Corporation**

Dataproduct 8070 Plus

Constant throughput is maintained throughout entire print run. High print quality both mono/color text and graphics. Automatic sheet feeders option.

Technology: **Dot Matrix mono and colour**
 Resolution: **84 x 84, 168 x 84dpi**
 Matrix: **18 x 9, 24 x 9, 36 x 18**
 Speed: **400, 300, 100(NLQ)cpi**
 Buffer: **4k**
 Character Sets: **7 international and download**
 Interfaces: **Serial or Parallel (2 ports)**
 Feed Options: **Friction and pin feed combined**
 Print positions: **132 @ 10cpi**
 Paper width: **15.5" wide**
 Price: **\$3225.00 mono ex tax, \$3375.00 colour including tax**
 Supplier: **Dataproducts Corporation Sigma Data Corporation**

Dataproducts 8020

Excellent heavy duty high print quality dot matrix printer: MTBF, 500 hours at 100% duty cycle @ 100% print density.

Technology: **Dot Matrix**
 Resolution: **84 x 84, 168 x 84dpi**
 Matrix: **9 x 9, 24 x 9, 38 x 18**

Speed: 180, 90, 30(NLQ)cps
 Buffer: 2k
 Character Sets: 7 international
 Interfaces: Serial/Centronics
 Feed Options: Friction and pin feed combined
 Print positions: 132 @ 10cpi
 Paper width: 15"
 Price: \$1050.00 ex tax
 Supplier: Dataproducts Corporation
 Sigma Data Corporation

Dataproducts 8022

IBM Graphics compatible printer, capable of 5-17 cpi, supports underline, boldface, super/sub script. No dip switches, selections set through front panel, and stored in CMOS RAM.
 Technology: Dot Matrix
 Resolution: 9 x 9
 Matrix: 9 x 9
 Speed: 180/30 LQ
 Buffer: 2k
 Character Sets: IBM Graphics Set
 Interfaces: Star/Centronics/Parallel
 Feed Options: Friction/Tractor
 Paper width: 13.2"
 Compatibility: Standard
 Price: \$995.00
 Supplier: Dick Smith Electronics Pty Ltd

Digital LA120

Rugged, dependable 180 cps printer incorporating stand.
 Technology: Dot Matrix
 Resolution: 7-pin
 Matrix: 7 x 7
 Speed: 180
 Buffer: 1k
 Character Sets: 1
 Interfaces: Serial
 Feed Options: Continuous
 Print positions: 136
 Paper width: 14.9"
 Compatibility: Digital
 Price: \$5364.00
 Supplier: Mitsui Computer Limited

Digital LA210

High speed desktop dot matrix printer suitable for all digital computers and IBM personal computers. Fully compatible with Digital and most IBM bit-map graphics.
 Technology: Dot Matrix
 Resolution: 9-pin
 Matrix: 7 x 9
 Speed: 240/40
 Buffer: 2k
 Character Sets: 6
 Interfaces: Serial
 Feed Options: Continuous and single sheet
 Print positions: 132

Paper width: 14' x 9"
 Compatibility: Digital
 Price: \$3031.00
 Supplier: Mitsui Computer Limited

Digital LA75

High quality, versatile desk top printer for both text and graphics. Fully compatible to use with software written for all DEC printers and IBM proprinter.
 Technology: Dot Matrix
 Resolution: 9-pin
 Matrix: 12 x 9
 Speed: 250/125/42
 Buffer: 2k
 Character Sets: 7
 Interfaces: Serial
 Feed Options: Continuous or single sheet
 Print positions: 80
 Paper width: 10"
 Compatibility: Digital
 Price: \$1332.00
 Supplier: Mitsui Computer Limited

EX800/1000

The EX800/1000 are fast personal printers. Time saving printing on spreadsheets allows you to print graphs, charts and tabulations with optimum clarity. Optional high-quality colour kit - a choice of two paper feeds and three paper types.
 Technology: 9-pin impact dot matrix
 Matrix: 9 x 9 (draft), 18 x 8 letter quality
 Speed: 300cps draft elite, 250cps draft pica
 Buffer: 8k
 Character Sets: 13 international
 Interfaces: 6-pin din RS232/Centronics
 Feed Options: Cut sheet feeder standard
 Print positions: 132cpl
 Paper width: 10"/16"
 Price: \$990/\$1290 ex tax
 Supplier: Epson Australia Pty Ltd
 Data Parts

FX800/1000

The FX800/1000 features parallel interfacing, emulation capability, ease of use, multiple NLQ fonts, bidirectional printing & proportional spacing, soft-touch selection/control panel and automatic cut sheet loading.
 Technology: 9-pin matrix
 Resolution: 216dpi (programmable)
 Matrix: Impact dot matrix
 Speed: 40cps NLQ
 Buffer: 8k input buffer
 Character Sets: 13 international
 Interfaces: Standard Centronics interfacing
 Feed Options: Friction/tractor sheet feeder
 Paper width: 10"/16"
 Price: \$840.00 - \$1050.00 ex tax

Supplier: Epson Australia Pty Ltd
 Data Parts

Great Little Printer II (GLP II)

The Centronics GLPII is suitable for home or office needs. This low cost, high quality dot matrix printer features draft and NLQ printing, high resolution graphics and flexible paper handling.
 Technology: Dot matrix
 Resolution: 240dpi
 Matrix: 9 x 9, 18 x 20
 Speed: 100/25
 Buffer: 2k
 Character Sets: 14
 Interfaces: RS232/Centronics
 Feed Options: 14
 Print positions: 80 column
 Paper width: 10"/254mm
 Compatibility: IBM PC/XT/AT & compatibles; Epson
 Price: \$425.00 ex tax
 Supplier: Genicom (Australia) Pty Ltd

IBM PC Convertible Printer

Technology: Non-impact thermal dot matrix
 Character Sets: ASCII 96 char.
 Interfaces: 72-pin slot at rear of PC convertible
 Compatibility: IBM PC Convertible
 Price: P O A
 Supplier: IBM

IBM Proprinter II

Technology: Dot matrix
 Matrix: 9-pin
 Speed: Continuous, single sheet
 Price: P O A
 Supplier: IBM

IBM Quietwriter II

The IBM Quietwriter is a new printer designed to take advantage of the power of the new IBM Personal Systems 2 range of computers.
 Price: P O A
 Supplier: IBM

IBM compatible matrix printers

The Genicom fully integrated IBM compatible matrix printers include Coax and Twinax desktop matrix printers and shuttle matrix line printers. Both the desktop and line printers feature a look-alike IBM control panel for ease of operation. The

printers are fast, quiet and reliable and allow for letter quality, barcodes, line and block graphics as well as high speed data processing printing.

Technology: **Shuttle matrix line/dot matrix**

Speed: **400/100cps**

Buffer: **4k - 8k**

Character Sets: **96 EBCDIC plus 16 national sets**

Interfaces: **Standard Coax and Twinax**

Feed Options: **Cut sheet bin feeder, continuous**

Paper width: **3" - 16.5"**

Price: **\$6849.00 - \$24593.00 ex tax**

Supplier: **Genicom (Australia) Pty Ltd**

ImageWriter II

The ImageWriter II works with any Apple personal computer to produce high quality text and graphics in black or, with appropriate software, colour. An optional cut-sheet feeder is available for volume printing.

Technology: **Matrix**

Resolution: **160dpi**

Matrix: **16 x 8 maximum**

Speed: **Draft 250cps, NLQ 45cps**

Buffer: **2k**

Character Sets: **8 foreign**

Interfaces: **RS232**

Feed Options: **Continuous, single, bin**

Paper width: **10"**

Compatibility: **Apple II and Macintosh**

Price: **\$1195.00**

Supplier: **Apple Computer Australia Pty Limited**

LQ2500

A high-speed printer with true letter quality for professional documents, easy operation control panel, professional fonts for document creation, auto paper loading, built in tractor unit and dual interfaces. Cut-sheet feeder and colour printing are optional and it has a font module slot.

Technology: **24-pin impact dot matrix printer**

Matrix: **9 x 23 draft, 29 x 23 letter quality**
Speed: **180cps (l.q. elite), 90cps (l.q. pica)**

Buffer: **8k**

Character Sets: **13 international**

Interfaces: **Centronics-type 8-bit parallel, RS232C**

Feed Options: **Tractor, friction, cut sheet feeder**

Print positions: **Programmable 180cpi**

Paper width: **14.3"**

Price: **\$1990.00 ex tax**

Supplier: **Epson Australia Pty Ltd**

Data Parts

LQ800-1000

The LQ800/1000 printers are considerably

slimmer and more compact than previous models, yet deliver 24-dot resolution.

Technology: **Letter quality dot-matrix printer**

Resolution: **360 x 180dpi**

Matrix: **Serial impact dot matrix**

Speed: **180cps draft, 60cps letter quality**

Character Sets: **13 international**

Interfaces: **RS232C/Centronics**

Feed Options: **Friction, tractor, cut sheet & fanfold**

Print positions: **Programmable 180cpi**

Price: **\$975.00 to \$1340.00 ex tax**

Supplier: **Epson Australia Pty Ltd**

Data Parts

LX-86

The LX-86 comes with a combination of high print speed, near letter print quality and versatile matrices. The 1k input buffer speeds printing jobs.

Technology: **9-pin Impact Dot Matrix Printer**

Matrix: **9 x 9 draft, 11 x 18NLQ, 6 x 8 graphic**

Speed: **120cps draft Pica**

Buffer: **1024 bytes**

Character Sets: **96 ASCII, 96 Italic, 32 International**

Interfaces: **Centronics-type 8-bit Parallel, IEEE-448**

Print positions: **Programmable 216cpi**

Paper width: **10"**

Price: **\$530.00 ex tax**

Supplier: **Epson Australia Pty Ltd**

Data Parts

MP 1300 A/I

This low noise printer (less than 55dBA) has the ability to download character sets, prints a variety of print styles including double width, bold, double strike, super/sub script. Uses a bottom paper feed. Colour option kit. The single sheet auto load feature is a standard. Graphics is standard. Compatible with most PC packages.

Technology: **Dot Matrix**

Speed: **300/50**

Buffer: **10k**

Character Sets: **Pica & Elite**

Interfaces: **Parallel & RS232C Serial**

Feed Options: **Tractor/Cut Sheet/Friction/Feeder**

Print positions: **80 @ 10cpi**

Paper width: **10"**

Compatibility: **Epson FX and IBM PC**

Price: **\$1425.00, wide version \$1620.00**

Supplier: **AWA Information and Control Division**

MT290

MT290 is a 200cps dot matrix printer compatible with Epson and IBM. It provides a

40 x 18 matrix for correspondence printing at 50cps print rate. Graphics resolution of 240 x 144dpi are available. Courier, letter gothic, helena and italic font cartridges can be placed into the machine. An automatic dual bin sheet feeder is available.

Technology: **Dot Matrix**

Resolution: **240 x 144dpi**

Matrix: **9 x 9 draft, 40 x 18 NLQ**

Speed: **200/50cps**

Character Sets: **ASCII, PC & Font cartridges**

Interfaces: **Parallel (optional serial)**

Feed Options: **Friction, tractor**

Paper width: **400mm**

Compatibility: **IBM PC/XT/AT**

Op.Sys: **PC/MS-DOS 3.1**

Other Req's: **Cable**

Price: **\$2041.00**

Supplier: **MPA Pty Limited**

MT330

MT330 provides a 24-pin printhead to provide three levels of print quality: draft (24 x 12), correspondence (24 x 24) and letter (24 x 48) - Printing at 300cps, 150cps and 75cps respectively. It is compatible with IBM PC, Epson and Diablo interface standards. It provides friction feed, push tractor feed and manual cut sheet feed standard. Automatic sheet feed is optional.

Technology: **Dot matrix**

Resolution: **240 x 360dpi**

Matrix: **24 x 48 in letter mode**

Speed: **300/175/15cps**

Buffer: **2k**

Character Sets: **256 ASCII and IBM PC**

Interfaces: **Parallel**

Feed Options: **Friction, tractor, cut sheet**

Print positions: **136 characters at 10cpi**

Compatibility: **IBM PC/XT/AT & compatible, Epson FX**

Op.Sys: **Any**

Price: **\$3608.00**

Supplier: **MPA Pty Limited**

MT490

MT490 is a high throughput dot matrix printer with fast 400 cps printing speed and rapid 15 ips vertical form feed. ANSI, Epson and IBM PC compatible, the MT490 provides draft and correspondence printing to data processing and word processing systems. The MT490 is definitely a heavy duty, robust printer.

Technology: **Dot matrix**

Resolution: **240 x 144dpi**

Matrix: **9 x 9 draft, 48 x 18 NLQ**

Speed: **400/150**

Buffer: **256 in parallel, 2k in serial**

Character Sets: **ASCII, IBM PC**

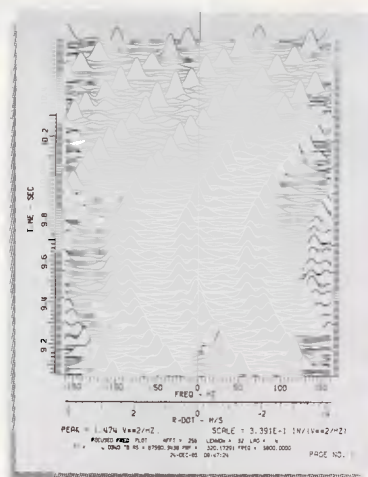
Interfaces: **Parallel and Serial optional**



B SERIES LINE PRINTERS



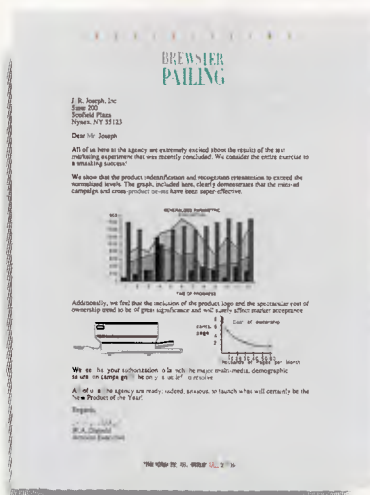
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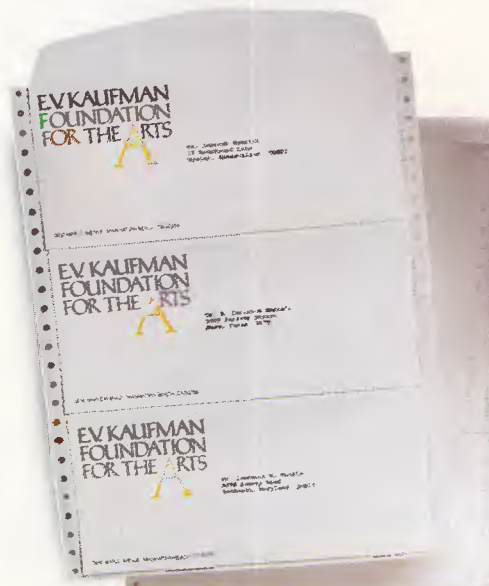
LZR SERIES LASER PRINTERS



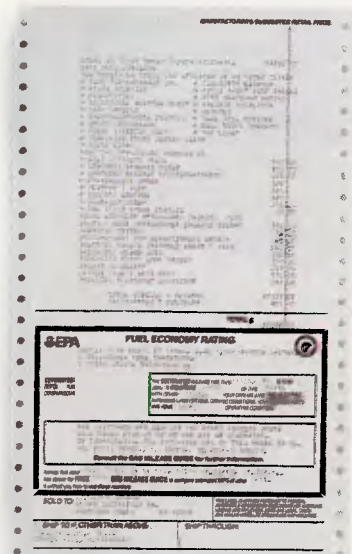
MICR SERIES CHECK PRINTERS



LZR SERIES LASER PRINTERS



DP SERIES DAISYWHEEL PRINTERS



LB SERIES LINE PRINTERS



8000 SERIES DOT MATRIX PRINTERS



M SERIES MATRIX PRINTERS

...and so on.

Dataproducts printers.

DATAPRODUCTS CORPORATION 6200 CANOGA AVE. WOODLAND HILLS, CA 91365 (818) 887-8000

Feed Options: Friction/Tractor
 Print positions: 132 at 10cpi
 Paper width: 400mm
 Compatibility: Most including IBM AT
 Op.Sys: PC/MS-DOS
 Price: \$5272.00
 Supplier: MPA Pty Limited

MT85

The MT85 is a compact professional printer designed to operate with a wide range of personal computers and software. Dual print speeds are standard along with graphics capability and a choice of interfaces. Optional plug-in typestyle (Font) cartridges increase flexibility along with features such as compressed and expanded printing modes. The 132 column 40.6 cm, MT86 retails at \$1395.00 plus tax.

Technology: Dot matrix
 Resolution: 240 x 216
 Matrix: 9 x 9 draft, 24 x 18 NLQ
 Speed: 180/45cps
 Buffer: 3k standard
 Character Sets: Quadrato, Courier, Italic, Letter Gothic
 Interfaces: RS232C/Centronics
 Feed Options: Friction, tractor
 Print positions: 80 columns at 10cpi
 Paper width: 254mm
 Compatibility: IBM PC/XT/AT & compatibles, Epson FX,
 Price: \$1179.00 ex tax
 Supplier: MPA Pty Limited

MT87/88

The MT87 has been designed to meet the needs of the executive workstation. Dual print modes with 200 cps draft and 50 cps high quality correspondence print. Automatic loading of fanfold paper from rear or single sheets from the front. Plug-in correspondence typestyle (font) cartridges are available to enhance important documents. The MT88 prints 132 characters across 15" paper and costs \$1550.00.

Technology: Impact dot matrix
 Resolution: 240 x 216
 Matrix: 9 x 9 draft, 24 x 18 Correspondence
 Speed: 200/50cps
 Buffer: 3k
 Character Sets: IBM PC(256), Epson with italics
 Interfaces: RS232C or Parallel
 Feed Options: Push tractors, single sheet feed
 Print positions: 80 characters at 10cpi
 Paper width: 10"
 Compatibility: IBM PC
 Op.Sys: PC/MS-DOS
 Price: \$1350.00
 Supplier: MPA Pty Limited

Microbee DP-100 Printer

Low cost dot matrix printer offering high printing speed and near letter quality printing.

Technology: Dot Matrix
 Resolution: 640dpi
 Matrix: 7 x 8 text, 8 x 8 graphics
 Speed: 100cps
 Buffer: 2k
 Character Sets: 7
 Interfaces: Centronics
 Feed Options: Friction/sprocket
 Print positions: Almost any
 Paper width: 254mm wide
 Price: \$549.00
 Supplier: IPL Datron

OKI Microline ML182/ML183

These are high quality, low cost dot matrix printers. Bottom feed is standard on both units. With optional tractor feed and tear off bar the ML182 becomes a perfect receipt printer. A 3 million character life ribbon is supplied.

Technology: 9-pin impact dot matrix
 Resolution: 144 x 144dpi
 Matrix: 9 x 9
 Speed: 120/33
 Character Sets: 7
 Interfaces: Parallel, Serial, Current Loop
 Feed Options: ML182 tractor feed
 Paper width: ML182 - 254mm, ML183 - 406.4mm
 Compatibility: OKI Microline, IBM PC/XT/AT & compatible
 Price: ML182 - \$549.00 ex tax, ML183 - \$849.00 ex tax
 Supplier: IPL Datron

OKI Microline ML192+/ML193+

ML192+/193+ have a utility speed of 160cps (as did previous unit) but have extra feature of 200cps draft mode in a 9 x 7 matrix. Semi-automatic sheet feed is now standard on both units. A sheet insertion guide is an option. Bottom feed and a front panel selectable print menu is standard on both.

Technology: 9-pin impact dot matrix
 Resolution: 288 x 144dpi
 Matrix: 17 x 17
 Speed: 200/40
 Buffer: 8k
 Character Sets: 37
 Interfaces: Parallel, Serial, Current Loop
 Feed Options: Both cut sheet feed, ML192+ tractor feed
 Paper width: ML192+ - 254mm, ML193+

- 406mm
 Compatibility: OKI Microline, IBM PC/XT/AT & compatible
 Price: ML192+ - \$899.00 ex tax, ML193+ - \$1180.00 ex tax
 Supplier: IPL Datron

OKI Microline ML292/ML293/ML294

These colour printers are heavy duty machines, ideal for both word processing and high quality graphics. The colour ribbons are optional and they can produce up to 14 colours. ML293/294 printers feature front panel selectable menu with bottom feed and semi automatic sheet feed as standard. The ML294 features 400 CPS in utility mode for \$2599.

Technology: 18-pin with colour
 Resolution: 288 x 144, 144 x 144 (colour)
 Matrix: 9 x 9 utility, 17 x 17 NLQ
 Speed: 200/100
 Buffer: 8k, 32k optional
 Character Sets: 46
 Interfaces: Parallel and Serial
 Feed Options: Cut sheet feed, ML292 also tractor feed
 Paper width: ML292-254mm, ML293/294-406.4mm
 Compatibility: OKI Microline and IBM
 Price: ML292-\$1360.00, ML293-\$1699.00, ML294-\$2599, all ex tax
 Supplier: IPL Datron

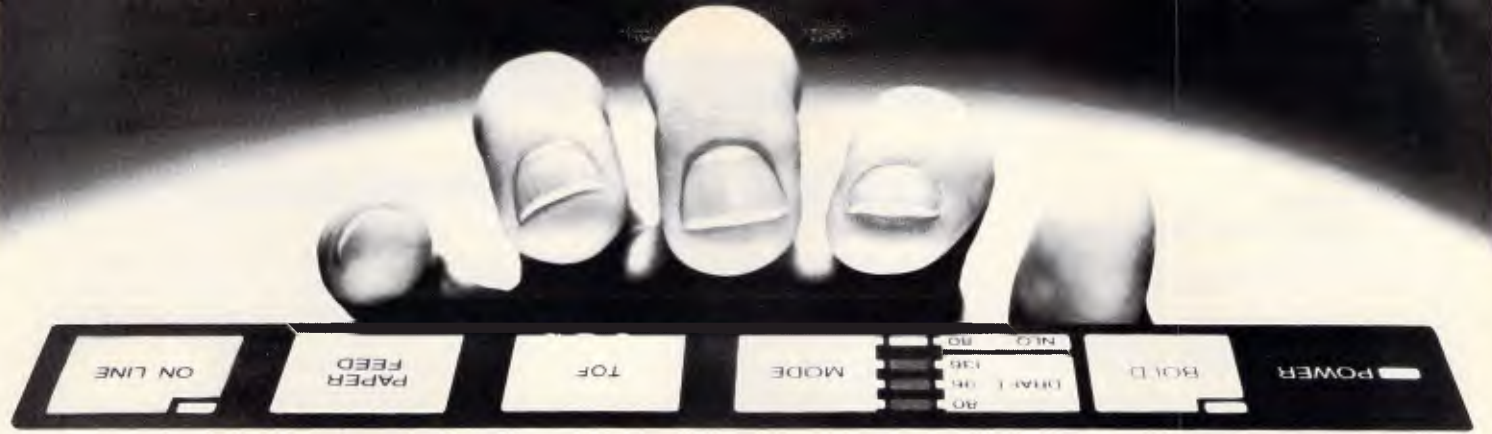
Okimate 20

Low cost super hi-res thermal transfer printer, produces over 100 shades. Will print best on thermal paper or clear acetate transparencies. Friction and pin feed paper handling.

Technology: 24-pin thermal transfer printhead
 Resolution: 144 x 144dpi
 Matrix: 7 x 18
 Speed: 80/40
 Buffer: 8k
 Character Sets: 14
 Interfaces: Parallel, Serial, IBM,
 Paper width: 254mm
 Other Req's: Works best with thermal paper.
 Price: \$625.00 ex tax
 Supplier: IPL Datron

Olympia NP165

Technology: Dot Matrix
 Matrix: 9-pin dot matrix
 Speed: 165 draft
 Buffer: 2k
 Character Sets: 8
 Interfaces: Centronics
 Feed Options: Tractor, Friction



now superior printing takes just a touch.

Complete control is right up front.

This new Star printer does so much so well so easily. Fantastic draft quality at 120 characters-per-second. And impeccable near-letter quality at 30 cps.

It's what's up front that makes great printing easy for you. Because Star puts everything right up front. On the front panel.

That's where you select print mode, print pitch, typeface, margin setting, and paper feed. Both single-sheet and tractor feeds are standard. And you can also have an automatic sheet feeder.

It's so easy to hitch your personal computer to a Star. Our NL-10™ has a plug-in interface cartridge for most PC's from Commodore 64 to IBM compatibles and even Macintosh.

No other printer can beat this Star for quality, speed and ease. It's far out in front of all competition.

In front with quality up front.

**The new
Star NL-10.**



Star Micronics Pty Ltd

7/25 George Street, Homebush NSW 2140

Phone: (02) 736 1144 Telex: AA73872

Melbourne: (03) 696 1172

Brisbane: (07) 875 1551

star
micronics

Paper width: 10"

Compatibility: **Epson FX80/RX80**

Price: **\$520.00**

Supplier: **Micron Computers Australia**

P5 Pinwriter

The P5 Pinwriter can use unidirectional and bidirectional tractor feeds, dual and single cut sheet feeders and a cut sheet guide.

Technology: **24-pin dot matrix**

Resolution: **360 x 360dpi**

Matrix: **24pin**

Speed: **264/220/94**

Buffer: **8k expandable to 40k**

Character Sets: **22 resident fonts plus cartridge options**

Interfaces: **Parallel, Serial**

Feed Options: **Tractor, cut sheet**

Paper width: **15"**

Compatibility: **IBM, NEC, Apple,**

Price: **\$1765.00 ex tax**

Supplier: **NEC Information Systems**

P6/P7 Pinwriter

These pinwriters can use unidirectional and bidirectional tractor feed or a cut sheet feeder.

Technology: **24-pin dot matrix**

Resolution: **360 x 360dpi**

Matrix: **24-pin**

Speed: **216/180/72**

Buffer: **8k**

Character Sets: **22 resident fonts**

Interfaces: **Parallel/Serial**

Feed Options: **Tractor, cut sheet**

Paper width: **11" P6, 15" P7**

Compatibility: **IBM, Apple, NEC**

Price: **\$929.00 ex tax P6, \$1210.00 ex tax P7.**

Supplier: **NEC Information Systems**

POS Printer

The model 500 POS printer features: calculator roll output, ruggedness, small footprint and low cost. It is well suited to low volume point of sale applications.

Technology: **Serial Impact Dot Matrix**

Resolution: **40 cols**

Matrix: **5 x 7**

Speed: **65cps**

Character Sets: **ASCII**

Interfaces: **Centronics/Serial**

Paper width: **69mm**

Price: **\$488.00 Centronics, \$552.00 Serial**

Supplier: **Unique Micro Design Pty Ltd**

Printstation 210/220

Available in both 80-column and 136-column models, the Centronics Printstation 210/220 offers reliability, economy and ease of operation to users of small Business and Personal Computers.

Technology: **Dot matrix**

Resolution: **Up to 3264dpi**

Matrix: **9 x 9**

Speed: **180/45**

Buffer: **3k, optional 16k**

Character Sets: **19**

Interfaces: **RS232/Centronics**

Feed Options: **Friction, pin and cut sheet**

Print positions: **136 column**

Paper width: **16.5"/420mm**

Price: **\$795.00 to \$995.00 ex tax**

Supplier: **Genicom (Australia) Pty Ltd**

Printstation Series 350

350 series is a family of medium and high speed dot matrix printers providing solutions for word processing, business processing and data processing. Customers of the 350 series include leading names such as Data General, IBM, NCR, CDC and many others.

Technology: **Dot matrix**

Resolution: **144 x 144dpi**

Matrix: **9 x 9**

Speed: **400/95; 200/50**

Buffer: **2k - 8k**

Character Sets: **9**

Interfaces: **RS232/Centronics**

Feed Options: **Cut sheet, 3-bin feeder, continuous**

Print positions: **136 column**

Paper width: **5" - 15"**

Price: **\$2800.00 - \$4500.00 ex tax**

Supplier: **Genicom (Australia) Pty Ltd**

SL80AI

The SL80AI features fine letter quality printing, low noise (less than 52 dBA), 10 kinds of addressable graphics, full word processing capabilities in double width, bold double strike, super/subscript and underline. A multistrike carbon ribbon is available.

Technology: **24-pin head Dot Matrix**

Matrix: **12 x 17 draft, 36 x 17 NLQ**

Speed: **134 and 45**

Buffer: **16k**

Character Sets: **Pica, Elite**

Interfaces: **Parallel**

Feed Options: **Tractor/friction standard, cut sheet**

Print positions: **80 @ 10cpi**

Paper width: **10"**

Compatibility: **Epson LQ, IBM PC**

Price: **\$950.00**

Supplier: **AWA Information and Control Division**

SP1000 AS & AP

A low noise printer capable of full word processing. It has an automatic single sheet load feature and right and left margin setting. Exceptional high quality near letter quality printing.

Technology: **Dot Matrix**

Matrix: **12 x 9 draft, 16 x 9 NLQ**

Speed: **100 & 20**

Buffer: **2k**

Character Sets: **Pica/Elite**

Interfaces: **Serial/Apple II**

Feed Options: **Tractor/friction standard, Cut sheet**

Print positions: **80 @ 10cpi**

Paper width: **10"**

Compatibility: **Apple IIC, IIE and Macintosh**

Price: **\$635.00**

Supplier: **AWA Information and Control Division**

SP1200

This printer is a quiet operator (less than 52 dBA) with: full word processing capabilities, dot addressable graphics (8 kinds), optional automatic paper loading, front panel selection for font types, pitch, near letter quality mode and paper handling. A multistrike carbon ribbon is optional.

Technology: **Dot Matrix**

Matrix: **12 x 9 draft, 16 x 9 near letter quality**

Speed: **120 and 22**

Buffer: **2.3k**

Character Sets: **Pica/Elite**

Interfaces: **Parallel, Serial, Commodore**

Feed Options: **Tractor/friction standard, Cut sheet**

Print positions: **80 @ 10cpi**

Paper width: **10"**

Compatibility: **Epson FX, IBM PC, Commodore 64/128**

Price: **\$735.00**

Supplier: **AWA Information and Control Division**

SP180 A & VC

"A" Models with parallel interface connect to any PC with a parallel interface. "VC" models are Commodore 64 and 128 compatible. Full word processing capabilities. Low noise level 52 dBA. Ideal for small business and home use.

Technology: **Dot Matrix**

Matrix: **12 x 9 draft, 16 x 9 near letter quality**

Speed: **100 and 16**

Character Sets: **Pica and Elite**

Interfaces: **Parallel and Commodore**

Feed Options: **Tractor and friction standard**

Print positions: **80 @ 10cpi**
 Paper width: **10"**
 Compatibility: **PC, Commodore**
 Price: **\$560.00**
 Supplier: **AWA Information and Control Division**

Sakata SP-1200 Plus

Both fixed and proportional character pitches are available. Emphasized and double-print modes possible. Superscript/subscript modes possible. Single and double resolution graphic modes available. Standard 80 column printer with NLQ. 8 international standard languages and the UK and 96 ASCII character fonts are stored internally.
 Technology: **Dot Matrix**
 Resolution: **up to 192dpi**
 Matrix: **Draft-9 x 9, NLQ-18 x 20. Up to 192 dpi**
 Speed: **Draft-120cps, NLQ-30cps**
 Character Sets: **8**
 Interfaces: **Centronics standard, Serial option**
 Feed Options: **Friction and tractor standard**
 Paper width: **4 to 10"**
 Compatibility: **Epson FX-80**
 Price: **\$525.00 including tax**
 Supplier: **Emona Computers Pty Ltd**

Sakata SP-5500

Standard 136 column. High speed, high resolution dot addressable bit image. Long life ribbon, by snap-in cassette (3 million characters). Pica, elite, double-width (pica and elite), double-width condensed characters can be mixed in same line with both proportional and LQ printing.
 Technology: **Dot Matrix**
 Resolution: **200dpi**
 Matrix: **Draft 9 x 9, NLQ 18 x 20. 102/204dpi**
 Speed: **Draft 180cps, NLQ 36cps**
 Buffer: **3k**
 Character Sets: **ASCII symbols + 7 foreign languages**
 Interfaces: **Centronics standard, Serial option**
 Feed Options: **Friction and tractor standard**
 Paper width: **4 to 16"**
 Compatibility: **Epson FX-80/100**
 Price: **\$999.00 including tax**
 Supplier: **Emona Computers Pty Ltd**

Sakata SP-6500

24-wire print head, life is up to 200 million dot strokes. Semi auto loading for cut sheets. Optional font cards: italics, gothic. Optional colour unit, plug-in interface module, 32k bytes buffer. Up to 24 dots bit image.

Technology: **Dot Matrix**
 Resolution: **24-wire**
 Matrix: **Draft-18 x 9, NLQ-18 x 26**
 Speed: **Draft-255cps, NLQ-85cps**
 Buffer: **8k**
 Character Sets: **IBM char set, download Draft 192, NLQ 96**
 Interfaces: **Centronics standard, Serial option**
 Feed Options: **Auto cut sheet feeder**
 Paper width: **16"**
 Price: **\$1475.00 including tax**
 Supplier: **Emona Computers Pty Ltd**

Seikosha BP5420FA

High speed, heavy duty system printer with full word processing and graphics capabilities. Very quiet at 57 dBA for office environment.
 Technology: **Dot Matrix**
 Resolution: **8-pin**
 Matrix: **12 x 8**
 Speed: **420/104**
 Buffer: **18k**
 Character Sets: **9**
 Interfaces: **Serial and Parallel**
 Feed Options: **Continuous/single sheet**
 Print positions: **136**
 Paper width: **15.5"**
 Price: **\$3400.00**
 Supplier: **Mitsui Computer Limited**

Seikosha MP1300AI

High speed quality printer with full word processing and graphics capability. User installable colour option available.
 Technology: **Dot Matrix**
 Resolution: **9-pin**
 Matrix: **12 x 9**
 Speed: **300/50**
 Buffer: **10k**
 Character Sets: **4**
 Interfaces: **Serial and Parallel**
 Feed Options: **Continuous and single sheets**
 Print positions: **80**
 Paper width: **10"**
 Price: **\$1295.00**
 Supplier: **Mitsui Computer Limited**

Star NB15

Character sets featured on the STAR NB15 include the standard 96 ASCII, 132 international, 81 and 52 IBM, 185 Super and Subscript and the 128 downloadable font.
 Matrix: **24-pin head**
 Speed: **12/10cpi. NLQ-100/83. Draft-300/250.**
 Buffer: **16k, optional 16k (32k)**
 Character Sets: **6**
 Interfaces: **Centronics, optional RS232**
 Feed Options: **Cut sheet feeder**
 Paper width: **15"**

Price: **\$1575.00 excluding tax**
 Supplier: **CPM Data Systems Pty Limited**
Star Micronics Pty Ltd

Star NB2410 Printer

High Speed Draft and NLQ. High print quality. Front control panel. Push tractor and friction feeds as standard. Epson, IBM compatibility. Hex dump mode, italic mode. Left & right margin settings, long life ribbon cartridges, optional 16k parallel buffer, 5 optional font cartridges. 12 months warranty. Bin feed option. Single short form tear off bar.
 Technology: **24-wire dot matrix**
 Matrix: **24 dot x 360 dots/inch**
 Speed: **216/72**
 Buffer: **8k**
 Character Sets: **34 plus 1 downloadable**
 Interfaces: **Parallel, optional RS232**
 Feed Options: **Friction, tractor, bin feed**
 Print positions: **20 col-Quad height - 160 col-Cond. elite**
 Paper width: **250 x 356mm**
 Compatibility: **Centronics/RS232**
 Price: **P O A**
 Supplier: **Star Micronics Pty Ltd**

Star NB2415

High speed Draft & NLQ, outstanding print quality, front control panel, push tractor and friction feed as standard, Epson/IBM compatibility. Hex dump mode, italic mode, left and right margin settings, long life ribbon cartridges, optional 16E parallel buffer, 5 optional font cartridges, 12 months warranty. Short form tear off bar.
 Technology: **24-wire dot matrix**
 Matrix: **24 x 360**
 Speed: **216/72cps**
 Buffer: **5k**
 Character Sets: **34 plus 1 downloadable**
 Interfaces: **Parallel, optional RS232**
 Feed Options: **Friction, tractor, bin feed**
 Print positions: **34 (Quad)-233 (condensed)**
 Paper width: **38 x 35.6 cm**
 Compatibility: **Centronics/RS232**
 Op.Sys: **Most**
 Price: **P O A**
 Supplier: **Star Micronics Pty Ltd**

Star ND15 Printer

High speed draft and NLQ, high print quality. Front control pane. Push tractor and friction feeds as standard. Epson/IBM compatible. Hex dump mode, italic mode. Left and right margin setting, forward and reverse micro linefeeds. Long life ribbon cartridge. 12 months warranty. Short form tear off bars.
 Technology: **9-wire dot matrix**
 Resolution: **240 x 145dpi**

Speed: 180/45
 Buffer: 12.6k
 Character Sets: 27 + 1 downloadable
 Interfaces: Parallel/Optional RS232
 Feed Options: Friction, tractor, bin feed
 Print positions: 34 quad height - 272 condensed elite
 Paper width: 380 x 356mm
 Compatibility: Centronics/RS232
 Price: P O A
 Supplier: Star Micronics Pty Ltd

Star NL-10 Printer

Outstanding print quality and performance. High speed draft and NLQ. Front panel operation. Push tractor and friction feed as standard. Optional interface cartridges for wide compatibility (IBM parallel, Apple, Commodore). Hex dump mode, italic mode. Left and right margin settings, forward and reverse micro linefeeds. Long life ribbon cartridge. 12 months warranty. Short form tear off bar.

Technology: 9-wire dot matrix
 Resolution: 240 x 145dpi
 Speed: 120/30
 Buffer: 5k
 Character Sets: Depends on interface
 Interfaces: 5 optional
 Feed Options: Friction, tractor, bin feed
 Print positions: 20 quad height - 160 condensed elite
 Paper width: 250 x 356mm
 Price: P O A
 Supplier: Star Micronics Pty Ltd

Star NR15 Printer

High speed draft and NLQ, high print quality. Front control panel. Standard push tractor and friction feeds. Epson/IBM compatible. Hex dump mode, italic mode. Left and right margin settings, forward and reverse micro linefeeds. Long life ribbon cartridge. 12 month warranty. Short form tear off bar.

Technology: 9-wire dot matrix
 Resolution: 240 x 145dpi
 Speed: 240/60
 Buffer: 12.6k
 Character Sets: 27 + 1 downloadable
 Interfaces: Parallel, optional RS232
 Feed Options: Friction, Tractor, Bin feed
 Print positions: 34 quad height, 272 col condensed elite
 Paper width: 380 x 356mm
 Compatibility: Centronics/RS232
 Price: P O A
 Supplier: Star Micronics Pty Ltd

Star NX-10C

Commodore compatible 120 cps NLQ dot matrix printer. Easy front panel operation. Self test. Flex dump. Panel mode. Forward and reverse microfeed. Top of form

set. Left and right margin set. Skip over perforation. Built-in tractor feed. Optional single bin sheet feeder.

Technology: Dot Matrix
 Speed: Draft 120, NLQ 30
 Interfaces: Commodore 64 and 128
 Feed Options: Friction, tractor & single sheet
 Paper width: 11" x 9.5"
 Compatibility: Commodore 64/128
 Price: \$599.00
 Supplier: Computermate Products (Aust) Pty Limited

Star NX10C

Commodore compatible 64/128. High speed draft & NLQ print performance. Front control panel, tractor and friction feeds as standard. Hex dump mode. Left and right margin settings, forward and reverse micro linefeeds. Long life ribbon cartridge. 12 months warranty. Short form tear off bar.

Technology: 9-wire dot matrix
 Resolution: 240 x 145dpi
 Speed: 120/30
 Character Sets: 4 + 1 downloadable
 Interfaces: Commodore Serial
 Feed Options: Friction, tractor, bin feed
 Print positions: 20 quad height - 160 col condensed elite
 Paper width: 250 x 356mm
 Compatibility: Commodore 64/128
 Op.Sys: Commodore
 Price: P O A
 Supplier: Star Micronics Pty Ltd
 Computermate Products

Star NX15

High speed draft and NLQ print performance. Front control pane. Push tractor and friction feed as standard. Epson/IBM compatible. Hex dump mode, italic mode. Left and right margin settings, forward and reverse micro linefeeds. Long life ribbon cartridge. 12 months warranty. Short form tear off bar.

Technology: Dot Matrix 9-wire
 Resolution: 240 x 145dpi
 Speed: 120/30
 Buffer: 4k
 Character Sets: 40 + 1 downloadable
 Interfaces: Parallel, optional RS232
 Feed Options: Friction, tractor, bin feed
 Print positions: 34 quad height - 233 col condensed elite
 Paper width: 380 x 356mm
 Compatibility: Centronics/Parallel/RS232
 Price: P O A
 Supplier: Star Micronics Pty Ltd

Super 5 EP-1201

The Super 5 EP-1201 is a high quality Japanese manufactured printer. Printhead

life is 100 million characters. It features durability, flexibility and accurate high resolution graphics.

Technology: Impact dot matrix
 Resolution: 240 x 216dpi
 Matrix: 9-pin (12 x 18 NLQ)
 Speed: 120/29cps
 Buffer: 1k
 Character Sets: Pica, Elite, Italics, Graphics
 Interfaces: Centronics RS232 optional
 Feed Options: Friction and tractor
 Print positions: 80 Pica, 96 Elite, 132 compressed
 Paper width: 10"
 Price: P O A
 Supplier: Multitech Computers Pty Ltd

Super 5 EP-2405

The EP-2405 is a fast, flexible dot matrix printer. It features Diablo 630 emulation for easy interfacing to word processing packages, high resolution graphics for excellent presentations of spreadsheet data and a large buffer for downloadable character sets and text buffering.

Technology: Impact dot matrix
 Resolution: 240 x 216dpi
 Matrix: 9-pin 18 x 18 NLQ
 Speed: 240/51cps
 Buffer: 15k (expandable to 32k)
 Character Sets: Pica, Elite, Italics
 Interfaces: Centronics, optional RS232
 Feed Options: Friction and tractor
 Print positions: 136 Pica, 163 Elite, 233 (Compressed)
 Paper width: 16.5"
 Price: P O A
 Supplier: Multitech Computers Pty Ltd

Tandy DMP 130

The DMP 130 features word processing, data processing and dot addressable graphics modes. It will print standard, italic and cursive in draft or NLQ mode. Bidirectional logic seeking head.

Technology: Dot matrix
 Resolution: 192dpi
 Speed: 100 draft, 24 NLQ
 Character Sets: 3
 Interfaces: Serial
 Feed Options: Tractor
 Paper width: 10"
 Price: \$599.00
 Supplier: Intertan

Tandy DMP 430

Prints 10, 12 or 16.7 cpi plus elongated standard, elite and condensed. Micro, italic and double height fonts are also available. It is a true pin driven tractor.

Technology: Dot matrix

Resolution: 800 dpi
 Matrix: 18
 Speed: 180cps
 Character Sets: 3
 Interfaces: Serial
 Feed Options: Tractor
 Print positions: 80-132
 Paper width: 10"
 Price: \$1299.00
 Supplier: Intertan

Teco 10" NLQ Printer

Specifically suited for a high volume invoicing role with push tractor and high reliability.

Technology: Dot matrix
 Resolution: 9 x 9 draft; 18 x 20 NLQ
 Matrix: Ranging from 8 x 480 - 9 x 960
 Speed: 180/36cps
 Buffer: 7k optional 15k
 Character Sets: 96 ASCII marker symbols, 11 foreign langs
 Interfaces: Parallel and serial
 Feed Options: Tractor/friction, bidirectional reverse
 Paper width: 11"
 Compatibility: IBM PC/XT/AT & com-

patibles, Epson
 Price: \$590.00
 Supplier: Ottoman Group Pty Ltd

Toshiba P351 II

Letter quality 132 column dot matrix printer. User friendly front panel with 7 segment display which displays font and pitch selection. Automatic & mechanical sheetfeeders are available as well as 2 tractor feeds. The P351 II features dual emulation, Qume Sprint II and IBM Graphics Printer Emulation. Can accept font cartridges and download fonts.

Technology: 24-pin letter quality printer
 Resolution: 360
 Matrix: 24 x 36
 Speed: 300/100
 Buffer: 4k standard
 Character Sets: ASCII & 32 international
 Interfaces: Serial/Parallel standard
 Feed Options: 2 tractor/2 sheet feeders, sing/dual bin
 Print positions: 132
 Paper width: 15"
 Price: \$2295.00 ex tax

Supplier: Toshiba Australia
 Minima Computer Services

Toshiba P351C

The P351C is Toshiba's fastest printer, and offers colour for presentation, clarity and professional impact. It has very wide compatibility, prints up to 288 cps and produces documents comparable in quality to those printed with a daisy wheel.

Technology: Impact wire Dot Matrix 24-pin overlapping colour format
 Resolution: 180 x 180dpi, graphic mode 180 x 360

Matrix: overlapping
 Speed: Draft - 288/240cps, NLQ - 100cps
 Buffer: 256 byte, 4k (switchable)
 Character Sets: 10 inc. international and graphics
 Interfaces: Centronics option with RS232 Serial
 Feed Options: Tractor/friction/sheet feeders
 Paper width: 4-15" wide, 6 parts carbon-less
 Price: \$2634.00
 Supplier: Minima Computer Services
 Toshiba Australia

LASER PRINTERS

5010 Laser Printer

Second generation, 10 page per minute laser with full software compatibility. The 5010 offers reliable heavy duty cycle performance.

Technology: Non-impact printer
 Resolution: 300 x 300dpi
 Speed: 10 pages/min
 Interfaces: Centronics/RS232 standard
 Paper size: Large range
 Price: \$6876.00 including tax
 Supplier: Genicom (Australia) Pty Ltd

Centronics Page Printer 8 (Laser)

Straight through feed path allows stiff card to be printed.

Resolution: 300dpi
 Speed: 8ppm
 Buffer: 1.5Mb
 Character Sets: Range of plug in fonts
 Interfaces: Centronics (RS232 & IEEE 488 opt.)
 Feed Options: Cut sheet
 Print positions: 80 standard
 Paper size: B4
 Price: \$6995.00

Supplier: Barson Computers Australasia Pty Limited

Cordata Laser Printer

This laser printer has 38 fonts available and comes with a controller card and software to drive it, paper tray of your choice and a cable to plug it into your PC.

Resolution: 300dpi
 Character Sets: 38
 Feed Options: Paper tray
 Paper size: A4/A5/legal
 Price: \$6795.00
 Supplier: Infocorp Pty Ltd

Datalazer 1230

The Datalazer prints at 12 pages per minute. The Datalazer has a front panel to allow the user to select the emulation, pitch, interface and typeface. Optional typefaces can be inserted with a magnetic card that can be customised to suit your requirements. The standard bin holds 250 sheets with a further option of an additional 500 sheets. 3 users can concurrently use the Datalazer as it provides 3 ports for simultaneous use. Is compatible with the HP Laserjet Plus, Epson FX80, and the Diablo 630.

Resolution: 300dpi
 Speed: 12ppm

Buffer: 521k RAM STD optional 1.5Mb
 Character Sets: 6
 Interfaces: 1 parallel, 2 serial
 Feed Options: 3 cass., label & envelope feeder, manual
 Paper size: 210 x 330mm
 Op.Sys: PC/MS-DOS Unix
 Price: \$6950.00
 Supplier: Dicker Data

Dataproduct LZR2630

A laser printer that emulates Diablo 630 daisywheel printers. Print speed is up to 26 pages per minute. Paper sizes up to A3. 3,000,000 page life or up to 80,000 pages per month. Suitable for heavy duty applications or PC networks.

Resolution: 300 x 300dpi
 Speed: 26ppm
 Character Sets: 5 fonts in 2 rotations
 Interfaces: Serial or Parallel
 Feed Options: Sheet feeder, 10 bin sorter/fee dn stack
 Paper size: A3
 Price: \$23950.00 ex tax
 Supplier: Dataproducts Corporation

Dataproducts LZR1230

A 12 page per minute laser that offers Diablo 630, Epson FX 80 and HP Laserjet

Plus emulations as standard, plus the ability to be connected to 3 PCs simultaneously. The LZR1230 has a printer life of up to 600,000 pages on 10,000 pages per month.

Resolution: **300 x 300dpi**

Speed: **12ppm**

Character Sets: **6 std. fonts, range cards & downloadable**

Interfaces: **1 Serial, 2 Parallel - all concurrent**

Feed Options: **Single cass. dual bin, sheet & env. feed**

Price: **\$6950.00 ex tax**

Supplier: **Dataproducts Corporation**

Dataproducts LZR2610

Line Printer Emulator with the ability to print 26 pages per minute and up to A3 paper sizes. 3,000,000 page life or up to 80,000 pages per month duty cycle. Suitable for heavy duty applications or PC networks.

Resolution: **300 x 300dpi**

Speed: **26ppm**

Character Sets: **3 fonts in two rotations**

Interfaces: **Serial or Parallel**

Feed Options: **Sheet feeder, 10 bin sorter/fce dn stack**

Paper size: **A3**

Price: **\$19950.00 ex tax**

Supplier: **Dataproducts Corporation**

Dataproducts LZR2620

Line Printer Emulator with the ability to print barcodes, OCR fonts and graphics for forms design. Print speed of up to 26 pages per minute on paper sizes up to A3. 3,000,000 page life or up to 80,000 pages per month. Suitable for heavy duty applications or PC networks.

Resolution: **300 x 300dpi**

Speed: **26ppm**

Character Sets: **6 fonts in 2 rotations plus barcodes**

Interfaces: **Serial or Parallel**

Feed Options: **Sheet feeder, 10 bin sorter/fce dn stack**

Paper size: **A3**

Price: **\$21950.00 ex tax**

Supplier: **Dataproducts Corporation**

Dataproducts LZR2655

A laser printer with up to 3 optional controllers, Diablo 630, Tektronix 4010, 4014 an RI print. Print speed is up to 26 pages per minute on paper sizes up to A3. 3,000,000 page life or up to 80,000 pages per month. Suitable for heavy duty applications or PC networks.

Resolution: **300 x 300dpi**

Speed: **26ppm**

Character Sets: **3 fonts in 4 rotations**

Interfaces: **Serial or parallel**

Feed Options: **Sheet feeder, 10 bin sorter/fce dn stack**

Paper size: **A3**

Price: **\$25950.00 ex tax**

Supplier: **Dataproducts Corporation**

Dataproducts LZR2665

A postscript laser printer with the ability to print full graphics over an A3 page. Print speeds are up to 26 pages per minute on paper sizes up to A3. 3,000,000 page life or up to 80,000 pages per month. Suitable for high volume desktop publishing applications.

Technology: **Laser Printer**

Resolution: **300 x 300dpi**

Speed: **26ppm**

Character Sets: **12 fonts + symbols in all rotations**

Interfaces: **Serial, Parallel and Apple-talk**

Feed Options: **Sheet feeder, 10 bin sorter/fce dn stack**

Paper size: **A3**

Price: **\$29950.00 ex tax**

Supplier: **Dataproducts Corporation**

Digital LN03

Desk top laser printer which can combine simple business graphics with text on a single page. Designed to work with all Digital systems. 250 sheet input hopper and 250 sheet output stacker collated.

Resolution: **300 x 300**

Speed: **8ppm**

Buffer: **312k**

Character Sets: **4**

Interfaces: **Serial**

Feed Options: **Single sheet**

Paper size: **A4**

Compatibility: **Digital**

Price: **\$7158.00**

Supplier: **Mitsui Computer Limited**

Digital LN03 Plus

Desk top laser printer which can produce full page bit map graphics printing with Tektronics 4010/4014 emulation. 250 sheet input hopper and 250 sheet output stacker collated.

Resolution: **300 x 300**

Speed: **8ppm**

Buffer: **1.352Mb**

Character Sets: **4**

Interfaces: **Serial**

Feed Options: **Single sheet**

Paper size: **A4**

Compatibility: **Digital**

Price: **\$8595.00**

Supplier: **Mitsui Computer Limited**

GQ-3500

The GQ-3500 laser printer features:

typeset quality, full flexibility in font style and size, nearly silent operation and fast - 6 pages per minute printout on virtually all grades of paper.

Resolution: **300 x 300dpi**

Speed: **6ppm**

Interfaces: **Centronics 8-bit Parallel, RS232C, RS422**

Feed Options: **Automatic feed**

Paper size: **Any size paper within the usable range**

Price: **P O A**

Supplier: **Epson Australia Pty Ltd**

Imagen Imagestation

Sophisticated imaging system providing high resolution graphics fully integrated with high quality text. Support impress page description language for typesetting and graphics. Also emulates Tektronics 4014 graphics terminal commands and various daisywheel and matrix printers.

Resolution: **300dpi**

Matrix: **Dependent on character size**

Speed: **8ppm**

Buffer: **1.5Mb**

Character Sets: **Courier/Lucida/Helvetica**

Interfaces: **RS232C to 19200bps, Centronics Parallel**

Feed Options: **Cut sheets only**

Print positions: **Dependent on character size**

Paper size: **Legal size**

Compatibility: **CT NGEN/UNIX machines**

Price: **\$20581.00 including tax**

Supplier: **Sigma Data Corporation**

LIPS - 10

The LIPS-10 printer emulates the Diablo 630, Epson FX-80, and HP Laserjet printers. It can print portrait or landscape formats in A4 and Legal sizes. It has 9 resident fonts, downloadable RAM and accepts plug-in font cartridges. The control panel is located at the top front and it has a numeric keypad and a 2 line 40 character display.

Resolution: **300dpi**

Speed: **10ppm A4, 8ppm Legal**

Character Sets: **9 resident and plug-in cartridges**

Interfaces: **RS232C/Centronics**

Paper size: **A4, Legal**

Price: **P O A**

Supplier: **Castle Technology Holdings**

LaserWriter Plus

Laser printer for Macintosh system providing extremely high quality text and graphic output. Use the PostScript page description language to facilitate the printing sophisticated artwork and page layouts.

Technology: **Laser**

Resolution: **300dpi**

Character Sets: 11 fonts
 Interfaces: AppleTalk and RS232
 Feed Options: Cartridge or manual
 Paper size: A4
 Compatibility: Apple II GS and Macintosh
 Price: \$11069.00
 Supplier: Apple Computer Australia Pty Ltd

Laserjet 2000

Resolution: 300 x 300dpi
 Speed: 20ppm
 Buffer: 512k
 Character Sets: 34
 Interfaces: RS232C, Centronics, Dataproducts
 Feed Options: Tray and manual
 Paper size: A3
 Price: \$37421.00 ex tax, \$42211.00 including tax
 Supplier: Hewlett Packard Australia Limited

Laserjet 500 Plus

Resolution: 300 x 300dpi
 Speed: 8ppm
 Buffer: 395k
 Character Sets: 3
 Interfaces: Parallel & Serial
 Feed Options: Tray & manual
 Paper size: A4
 Price: \$8740.00 ex tax
 Supplier: Hewlett Packard Australia Limited

Laserjet Series II

Resolution: 300 x 300dpi
 Speed: 8ppm
 Buffer: 395k
 Character Sets: 23
 Interfaces: RS232C & Centronics
 Feed Options: Tray & manual
 Paper size: A4
 Price: \$5853.00 ex tax, \$6603 including tax
 Supplier: Hewlett Packard Australia Limited

MT910

MT910 laser printer prints at 10 pages per minute with a resolution of 300 dots per inch. Two typefaces (Prestige and Courier) come standard along with graphics capabilities and 512K memory. Epson FX, IBM Proprinter, HP Laserjet Plus, Qume and Diablo 630 compatibility is provided. Dual bin input cassettes provide for letterhead and continuation sheets (250 sheets per bin).
 Resolution: 300dpi

Matrix: 300
 Speed: 10ppm
 Buffer: 2k
 Character Sets: 3 fonts resident - expand to 9
 Interfaces: Parallel or Serial
 Feed Options: Dual bin sheet feed
 Paper size: A4
 Compatibility: Epson, Diablo 630, HP Laserjet Plus
 Op.Sys: Any
 Price: \$7533.00
 Supplier: MPA Pty Limited

OKI Laserline 6

A reasonably priced full featured laser printer.
 Resolution: 300dpi
 Speed: 6ppm
 Buffer: Receive 16k, Print 128k
 Character Sets: 15 resident, 4 optional cartridges
 Interfaces: Parallel or Serial
 Feed Options: 550 sheet input bin
 Paper size: B5
 Price: P O A
 Supplier: IPL Datron

Pageprinter 8

Second-generation, high performance laser with full software compatibility. Using straight through paper feeding to minimise jamming, the Pageprinter 8 offers lowered cost of ownership and increased lifespan.
 Resolution: 300 x 300dpi
 Speed: 8ppm
 Buffer: 256k optional 1.5Mb
 Character Sets: 12
 Interfaces: RS232, Centronics, IEEE
 Feed Options: Double bin sheet feeder
 Print positions: Portrait, landscape
 Paper size: 8.5" x 14" A4
 Compatibility: IBM PC/XT/AT & compatibles
 Price: \$4750.00 ex tax
 Supplier: Genicom (Australia) Pty Ltd

Quadram Quadlaser Printer

The Quadram Quadlaser is a full feature laser printer based on the Ricoh print engine. It produces quality printing through software fonts and up to full-page 300dpi graphics with speed and flexibility. It is designed for high volume use. It has the ability to emulate Qume, Epson and HP Laserjet printers.
 Resolution: 300 x 300dpi
 Speed: 8ppm
 Interfaces: Parallel or Serial
 Paper size: 8.5" x 11"
 Compatibility: IBM PC/XT/AT & com-

patibles
 Op.Sys: PC/MS-DOS 2.1 or higher
 Price: \$5877.00 ex tax
 Supplier: Intelligent Systems Australia

Qume Laser Printer

Using a second generation laser printer engine, the Qume achieves high print speed and low per copy cost, reducing the life time cost. Has a high life expectancy. 250 sheet cassette and collated output improve ease of use.
 Resolution: 300dpi
 Speed: 10ppm
 Buffer: 64k
 Character Sets: Up to 19 online
 Interfaces: RS232C to 9600bps, Centronics
 Feed Options: Cut sheets only
 Print positions: Dependant on character size
 Paper size: Legal
 Price: \$7200.00 including tax
 Supplier: Sigma Data Corporation

Qume LaserTen & LaserTen Plus

The Qume LaserTen printers are HP Laserjet Plus compatible.
 Resolution: 300 x 300dpi
 Speed: 10ppm
 Buffer: 128k/512k
 Character Sets: 100 fonts
 Interfaces: HP Laserjet, Qume, RS232, Centronics
 Feed Options: Paper tray
 Paper size: A4
 Price: \$7194.00 LaserTen, \$8394.00 LaserTen Plus
 Supplier: Standard Telephones & Cables

Unisys Model 37 Laser Printer

The Unisys Model 37 Laser is a high quality, low noise Desktop laser. It prints at 10 pages per minute, providing either text or full landscape graphics. It incorporates multiple industry standard emulations and multiple resident fonts. A programming language is provided to customise logos and forms.
 Resolution: 300 x 300dpi
 Speed: 10ppm
 Buffer: 8k
 Interfaces: Parallel and Serial
 Feed Options: Single sheet - auto/manual
 Paper size: A3
 Op.Sys: PC/MS-DOS, Unix
 Price: \$7995.00 ex tax
 Supplier: Unisys

Calcomp 1041GT/HS

The 1041GT is an 8 pen cut sheet A1 plotter which can be used by many CAD and other software packages: high speed and high accuracy are key features.

Technology: **Pen plotter**

Resolution: **0.0005"/0.0125mm**

Speed: **24ips/610 mmps**

Buffer: **2k input, 22k plotting**

Interfaces: **RS232C or IEEE488**

Feed Options: **Cut sheet**

Print positions: **Rotate at 1 degree increments**

Paper size: **A1 or D**

Price: **\$17000.00**

Supplier: **Datamatic Pty Ltd**

Colormaster Plotter/Printer

A colour copy time of 45 secs average on paper or transparency film. Uses reloadable cartridges with 130 colour pages, or 500 monochrome pages per cartridge. Variable character pitch and line spacing. Supported by a wide range of business graphics software. Epson FX-80 compatible.

Technology: **Thermal transfer from ribbon 7 colour or monochrome**

Resolution: **0.125mm horizontal, 0.127mm vertical**

Speed: **240cps**

Buffer: **512k**

Character Sets: **96 ASCII with Italics, 32 Foreign**

Interfaces: **RS232C, Centronics**

Feed Options: **Automatic sheet feeder**

Paper size: **A/A4**

Op.Sys: **Any**

Price: **\$13500.00**

Supplier: **Datamatic Pty Ltd**

Colorpro Plotter

Supports character sets: ANSI, ASCII, HP 9825, French/German, Spanish/Latin, Scandinavian.

Technology: **Gritwheel**

Resolution: **0.025mm**

Speed: **40cm/sec**

Buffer: **60 bytes**

Character Sets: **6**

Interfaces: **HP-IB, RS232C**

Feed Options: **Manual**

Paper size: **210 x 297mm**

Price: **\$2486.00 ex tax, \$2819.00 including tax**

Supplier: **Hewlett Packard Australia Limited**

DPX-2000

The DPX-2000 is an 8 pen Flatbed plotter for ANSI-C/ISO-A2 size paper. It

produces fast, high quality drawings at a max. plotting speed of 400mm/sec. with a resolution of 0.0125mm/step. The RD-GLII command set provides total compatibility with the wide range of software available for the HP 7580 B and HP 7585 plotters.

Technology: **Digital 8 Pen Flatbed Plotter A2**

Resolution: **0.0125mm (12.5u)/step in all directions**

Speed: **400mm/sec.**

Buffer: **15k**

Character Sets: **Multi-language font sets.**

Interfaces: **Centronics/RS232C**

Paper size: **A2 594 x 432mm (ANSI-C/ISO-A2)**

Price: **\$6890.00 ex tax, \$7950.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

DPX-3300

The DPX-3300 is an 8-pen Flatbed Plotter for ANSI-D/ISO-A1 size paper - (864mm x 594 mm). It produces fast, high quality drawings at a maximum plotting speed of 450mm/sec., with a resolution of 0.0125mm/step. The RD-GLII command set provides total compatibility with the wide range of software available for the HP-7580B and HP-7585 plotters.

Technology: **Digital, 8 Pen Flatbed Plotter A1**

Resolution: **0.025mm/step (addressable)**

Speed: **450mm/sec**

Buffer: **15k**

Character Sets: **Multi-language font sets**

Interfaces: **Centronics/RS232C**

Paper size: **A1-864mm x 594mm (ANSI-D/ISO-A1)**

Compatibility: **HP 7580/7585**

Price: **\$9962.33 ex tax, \$11495.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

DXT-885

The DXY-885 is an 8 pen Flatbed plotter for ANSI-B/ISO-A3 size paper, (actual plotting size 416 x 276mm). With an addressable resolution of 0.025mm/step. Other features include: soft landing pen device; automatic pen capping; a manual pen force adjusting knob; magnetic bed; operates in a standing position.

Technology: **Digital - 8 Pen Flatbed Plotter A3**

Resolution: **0.025mm/step.**

Speed: **300mm/sec.**

Buffer: **1k**

Character Sets: **Multi-language font sets**

Interfaces: **Centronics/RS232C**

Paper size: **A3 (420 x 297mm) - ISO-**

A3/ANSI-B

Price: **\$2406.25 ex tax, \$2750.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

DXY-800

The DXY-800 is an 8 color pen Flatbed plotter. It has a plotting speed of 180mm/sec (axial direction) with a resolution of 0.1mm/step. Other features:- effective plotting area - 350mm x 260mm; operates in either a flat or standing position.

Technology: **Digital-8 Pen Flatbed Plotter A3**

Resolution: **0.1mm/step**

Speed: **180mm/sec**

Buffer: **1k**

Character Sets: **Multi-language font sets**

Interfaces: **Centronics/RS232C**

Paper size: **A3 - 420mm x 297mm (ISO A3 - ANSI B)**

Price: **\$1133.33 ex tax, \$1295.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

DXY-880

The DXY-880 is an A3, 8 pen flatbed plotter. It combines a plotting speed of 200mm/sec. in all directions with 0.05mm resolution. Effective plotting area 380 x 270mm. Other features include:- magnetic strips for paper hold, operates in either a flat or standing position.

Technology: **Digital - 8 Pen Flatbed Plotter - A3**

Resolution: **0.05mm/step in all directions**

Speed: **200mm/sec**

Buffer: **3k**

Character Sets: **Multi-language font sets**

Interfaces: **Centronics/RS232C**

Paper size: **420 x 297mm (ISO A3/ANSI B)**

Price: **\$1968.75 ex tax, \$2250.00 including tax**

Supplier: **Roland Corporation Australia Pty Limited**

DXY-980

The DXY-980 is an A3, 8 pen Flatbed plotter. It combines a plotting speed of 230mm/sec. in all directions with 0.05mm resolution. Other features include:- electrostatic paper hold pad; mechanical soft landing pen system; a LED display provides an accurate pen position in X-Y co-ordinates; operates in a standing position.

Technology: **Digital 8 Pen Flatbed Plotter A3**

Resolution: **0.05mm (50u)/step. in all**

directions**Speed: 230mm/sec.****Buffer: 3k****Character Sets: Multi-language font sets****Interfaces: Centronics/RS232C****Paper size: A3 420 x 297mm (ISO-****A3/ANSI-B)****Price: \$2581.25 ex tax, \$2950.00 includ-**
ing tax**Supplier: Roland Corporation Australia**
Pty Limited**DXY-990**

The DXY-990 is an 8 pen Flatbed plotter for ANSI-B/ISO-A3 size paper, 416 x 276mm. With an addressable resolution of 0.025mm/step. Other features include: electrostatic paper holder; X-Y coordinate display; auto. pen capping device; soft landing pen device; integrated pen case, a manual pen force adjusting knob; operates in a standing position.

Technology: Digital 8 Pen Flatbed Plot-
ter A3**Resolution: 0.025mm/step (addressable)****Speed: 300mm/sec.****Buffer: 1k****Character Sets: Multi-language font sets****Interfaces: Centronics/RS232C****Paper size: A3 420 x 297mm (ISO-****A3/ANSI-B)****Price: \$3281.25 ex tax, \$3750.00 includ-**
ing tax**Supplier: Roland Corporation Australia**
Pty Limited**Enter 1000**

The single pen SP 1000 emulates the widely used HP/GL language. Most Micro-cad packages such as Auto-cad, Versa-cad can be used with the SP 1000 and in the RS232C interface ensures that it will connect to almost any computer. Through the use of the full function keyboard precise acceleration and pen force adjustments can be made.

Technology: SP 1000 CAD A1 Plotter**Resolution: 0.025mm****Buffer: 18k****Interfaces: RS232****Paper size: A1****Price: \$8400.00****Supplier: Kenelec Pty Ltd****Enter 1200**

The SP 1200 is continuously adjustable from A size media to size E and all non standard sizes in between, for output on paper vellum or transparent film. The single pen SP 1200 emulates widely used DM/PL language and as such can support a wide range of software.

Technology: SP 1200 AO CAD Plotter**Resolution: 0.064mm****Buffer: 14k****Interfaces: RS232C****Paper size: A0****Price: \$8995.00****Supplier: Kenelec Pty Ltd****HP 7475A****Technology: Gritwheel****Resolution: 0.025mm****Speed: 38.1cm/sec****Buffer: 1k****Character Sets: 19****Interfaces: HP-IB, RS232C****Feed Options: Manual****Paper size: A3****Price: \$3647.00 ex tax, \$4136.00 includ-**
ing tax**Supplier: Hewlett Packard Australia**
Limited**HP 7550A****Technology: Gritwheel Paper Motion****Resolution: 0.025****Speed: 80cm/sec****Buffer: 12k****Character Sets: 20****Interfaces: HP-IB, RS232C****Feed Options: Manual, Auto (paper)****Paper size: A3 (297mm x 420mm)****Price: \$7508.00 ex tax, \$8514.00 includ-**
ing tax**Supplier: Hewlett Packard Australia**
Limited**HP Draftmaster I****Technology: Gritwheel Paper Motion****Resolution: 0.025mm****Speed: 60cm/sec****Buffer: 25k****Character Sets: 60****Interfaces: RS232C, RS232A, HP-IB (IEEE-**
488)**Feed Options: Manual single sheet****Paper size: A0****Price: \$19013.00 ex tax, \$21865.00 includ-**
ing tax**Supplier: Hewlett Packard Australia**
Limited**HP Draftmaster II****Technology: Gritwheel Paper Motion****Resolution: 0.025mm****Speed: 60cm/sec****Buffer: 25k****Character Sets: 60****Interfaces: HP-IB (IEEE-****488), RS232C, RS232A****Feed Options: Automatic Roll Feed,****Manual single sheet****Paper size: A0****Price: \$22913.00 ex tax, \$26350.00 includ-****ing tax****Supplier: Hewlett Packard Australia**
Limited**HP Draftpro****Technology: Gritwheel****Resolution: 0.025mm****Speed: 40cm/sec****Buffer: 7448 bytes****Character Sets: 40****Interfaces: RS232C (HP-IB opt)****Feed Options: Manual****Paper size: A1****Price: \$10335.00 ex tax, \$11720.00 includ-**
ing tax**Supplier: Hewlett Packard Australia**
Limited**Ioline LP4000 Plotter**

2 models: single pen and multipen. Configurations include up to 20 pens and plot optimization. Optional 512k Hyperbuffer. Repeatability 0.0025". Accuracy to +/- 0.01%

Resolution: 0.001"/0.0025mm**Speed: 70cm/sec. diagonal****Buffer: 12k****Paper size: A0****Price: \$9400.00 ex tax****Supplier: Barrington Corp.****Mural Plotter**

Designed to hang on the wall, the Mural Plotter features HPGL command set compatibility & hand held controller. Larger size plots possible, including plots on thick cardboard. Repeatability +/- 0.89mm. Accuracy +/- 0.35%

Resolution: 0.089mm**Speed: 177mm/sec.****Paper size: 685 x 914mm****Price: \$4990.00 ex tax****Supplier: Barrington Corp.****Numonics Series 5000 Plotters**

Models range from the compact desktop #5412 single-pen A or B (A4 or A3) size plotter to the #5460 single-pen A-D (A4 to A1) sized plotter and the versatile #5860 eight-pen A-D (A4 to A1) size plotter. Numonics plotters offer the advantage of four different pen types, including liquid ink, ball point, fiber tip and ceramic. The standard plotter interface is RS232C with optional interfaces, including IEEE488 and 8-bit Parallel.

Resolution: Physical .0254mm, Logical
.025mm**Speed: 7.7"/sec, -10.9"/sec****Buffer: 1k****Interfaces: RS232C, 8-bit Parallel,**

IEEE488

Feed Options: **Paper Vellum, Mylar and Bond**

Paper size: **A4-A1**

Compatibility: **Most CAD and graphics systems**

Price: **\$1500.00 - \$7500.00**

Supplier: **Quentron Digital Systems**

Roland 880A Plotter

The Roland 880A Plotter features high resolution 0.05mm/step, Parallel and Serial interface, high speed drawing 200mm/s, characters may be slanted and rotated, built in data buffer is 3k expandable to 10k and various character fonts are standard.

Technology: **X-Y Plotter**

Resolution: **0.05mm/step**

Speed: **200mm/sec**

Buffer: **3k**

Interfaces: **Parallel and Serial**

Paper size: **A3 sheet**

Compatibility: **HP 7475**

Price: **\$2250.00**

Supplier: **Dick Smith Electronics Pty Ltd**

SE 293 Flatbed plotter

This ergonomically designed plotter features an inbuilt microprocessor, a 2 line display and a 25 key control panel. The processor provides automatic graphics functions: circle, symbol and vector generation, co-ordinate rotation and transformation cross hatching, thick lines axis generation and scaling. The plotting process is controlled by computer but can be interrupted at any time from the control panel.

Technology: **8 pen inclined bed plotter**

Resolution: **0.025mm**

Speed: **70cmps**

Buffer: **2k**

Character Sets: **6**

Interfaces: **RS232, IEEE 488**

Feed Options: **Paper roll, flat paper or foil**

Paper size: **A3**

Price: **P O A**

Supplier: **Digital Laboratory**

SE284 Flatbed Plotter

This plotter operates in plot, print and monitor modes for drawing text and data monitoring. It can use the BBC or HP graphics languages providing 6 fonts in 3 styles or 19 fonts respectively.

Technology: **8 pen flatbed plotter**

Resolution: **0.05mm**

Speed: **3cps, 4cmps**

Buffer: **7 - 15k**

Character Sets: **19**

Interfaces: **Serial/Centronics/IEEE 488**

Print positions: **80 x 44 lines**

Paper size: **A4 and ANSI A**

Price: **P O A**

Supplier: **Intelec Data Systems**

Sakata SCP-800

Prints or plots in 4 colours. Can draw on OHP film with special pens. Almost any thickness of paper can be used. Ball point pen, 4 colour. Rotary select type.

Technology: **Hybrid X-Y Plotter**

Resolution: **0.2mm/step**

Speed: **285steps/sec.**

Character Sets: **96 ASCII character**

Interfaces: **Centronics/Serial or both**

Paper size: **A4**

Price: **\$399.00 including tax**

Supplier: **Emona Computers Pty Ltd**

Sakata SPL-3000

The Sakata SPL-3000 is a versatile plotter, compatible with a wide range of available PC software including Autocad, Protel, Smartwork, Lotus 1-2-3 and many others. It will take adaptors for ceramic and Rotring pens for high quality requirements, and is capable of plotting directly to plastic film for PCB artwork requirements.

Technology: **Flat bed moving pen plotter**

Resolution: **0.025mm step, 0.2mm positioning**

Speed: **300mm/sec**

Character Sets: **1**

Interfaces: **Centronics or RS232**

Paper size: **420mm x 297mm**

Compatibility: **HP7475**

Price: **\$1739.00**

Supplier: **Multitech Computers Pty Ltd
Emona Computers Pty Ltd**

Sweet P601 Plotter

The model 600/601, commonly referred to as the Sweet P, produces high quality output which is perfect for charts, graphs or technical drawings on paper or film. Over 100 graphics software packages support the SP 600 such as Autocad, Lotus 123, Versa-cad, Graphwriter etc.. In addition to its own language it also emulates HP.GL.

Resolution: **0.15mm/0.001"**

Buffer: **1.4k**

Interfaces: **RS232/Centronics Parallel**

Paper size: **A3/A4**

Price: **\$1650.00**

Supplier: **Kenelec Pty Ltd**

Zeta 8

The Zeta 8 is an eight pen 30 CM drum

plotter with continuous paper feed A3/A4, and a speed of 65cm/sec. in any direction. Linear pen actuation supports liquid roller and nylon tip pens.

Technology: **Digital Drum Plotter**

Resolution: **0.025mm/0.001"**

Speed: **63cm/sec**

Buffer: **2k**

Interfaces: **R3232 IEEE-488**

Paper size: **A4/A3**

Price: **\$9995.00**

Supplier: **Kenelec Pty Ltd**

Zeta 824 CS

The Zeta 824 CS is an eight pen plotter that utilises both cut sheet and continuous roll media. Speed is 63cm/sec. in any direction with 0.025mm resolutions.

Technology: **Digital Drum Plotter**

Resolution: **0.025mm/0.001"**

Speed: **63cm/sec.**

Buffer: **18k**

Paper size: **A1**

Price: **\$14600.00**

Supplier: **Kenelec Pty Ltd**

Zeta 836 CS

The Zeta 836 CS is an eight pen plotter that utilises both cut sheet and continuous roll media. Its speed is 63cm in any direction with a resolution of 0.025mm.

Technology: **Digital Drum Plotter**

Resolution: **0.025mm/0.001"**

Speed: **63cm/sec.**

Buffer: **18k**

Interfaces: **RS232, IEEE 488: opt. IBI71, DSS3270**

Paper size: **A0**

Price: **\$20300.00**

Supplier: **Kenelec Pty Ltd**

Zetadraft 900

The recently introduced Zetadraft 900 plotter is an A0 cut sheet 8 pen plotter with 6G's acceleration, 115cm pen speed, and 0.05% accuracy. The vendor claims that the Zetadraft 900 is superior to any other plotter currently available on the market and is competitively priced.

Technology: **8 pen plotter**

Resolution: **0.0125mm**

Speed: **114cm/sec.**

Buffer: **40k**

Interfaces: **RS232/Centronics opt. IEEE opt.**

Feed Options: **Cut sheet**

Paper size: **A0**

Price: **P O A**

Supplier: **Kenelec Pty Ltd**

ACT 11 Colour Printer

The ACT 11 is compatible with most colour graphics systems, (a compatibility listing is available). It is easy to use and prints on 12" continuous or single sheet overhead transparencies and paper, on demand at 5.6" per minute. The ACT 11 offers 125 colours. Print modes are user selectable - raster and character.

Technology: **Colour Ink Set Printer**
Resolution: **horiz.:40-120dpi selectable, 85dpi vert.**

Speed: **90secs. for 8.5" x 11"**

Buffer: **2k**

Character Sets: **Standard ASCII available**
Interfaces: **RS232G, Centronics Video - RS170, RG13**

Feed Options: **Continuous, single sheet**
Paper width: **12" x continuous**

Compatibility: **Most graphics systems + colour terminals**

Price: **\$12227.00**

Supplier: **Quentron Digital Systems**

Brother HR35DD Printer

Technology: **Dual daisywheel, dot matrix**

Speed: **Daisywheel 36cps, Dot 140cps**

Buffer: **3k (11k optional)**

Character Sets: **Daisy 96/wheel, Dot ASCII 96 and Int.43**

Interfaces: **Parallel Centronics/Serial option**

Feed Options: **Friction, tractor, cut sheet**

Print positions: **Daisy 10 & 12 pitch**

Paper width: **16.5"**

Price: **\$2495.00 including tax**

Supplier: **Pacific Data Corporation**

Centronics Linewriters LW455/855/1255

Fast throughput and excellent letter quality print. Compact, quietised cabinets (55dB (A)) ensure quiet operation in office environment. Easy operation; intelligent display panel continuously monitors and reports status of printer and identifies source of any problems. Paper forms and bands quickly and easily changed. Long life cassette ribbon, 600k lines. Prices quoted include tax, freight, insurance and installation.

Technology: **Band printer**

Speed: **400/800/1200lpm**

Character Sets: **48, 64, 96**

Interfaces: **Centronics, RS232, ASCII Parallel**

Feed Options: **Tractor**

Print positions: **132/136 col**

Paper width: **457 x 457mm**

Compatibility: **DEC, PDP, Datapoint, Wang, IBM**

Price: **LW455 - \$15297.00; LW - \$18122.00; LW1255 - \$22862.00**

Supplier: **Genicom (Australia) Pty Ltd**

Dataproducts LB300 & LB315

Incorporates latest microprocessor, hammer and band technology. 8 microprocessors make this a very advanced line printer.

Technology: **Band printer**

Speed: **300lpm**

Character Sets: **wide range**

Interfaces: **Centronics, Dataproducts, Serial**

Feed Options: **Continuous paper**

Print positions: **136**

Paper width: **16"**

Price: **LB300 - \$10655.00, LB315 - \$13143.00**

Supplier: **Dataproducts Corporation**

Dataproducts LB615

Incorporates latest microprocessor, hammer and band technology. 8 microprocessors make this a very technology advanced line printer.

Technology: **Band printer**

Speed: **600 lpm**

Character Sets: **Wide range**

Interfaces: **Centronics, Dataproducts, Serial**

Feed Options: **Continuous paper**

Print positions: **136**

Paper width: **16"**

Price: **\$15337.00**

Supplier: **Dataproducts Corporation**

Gould Colourwriter 6120

The Gould colourwriter prints on plain or coated A3 or A4 paper or transparencies. It is HPGL compatible.

Paper width: **A3**

Price: **P O A**

Supplier: **Infocorp Pty Limited**

Linewriter 400/855/1200 Twinax

Technology: **Fully formed character band printer**

Speed: **400/800/1200lpm**

Character Sets: **48/64/96/128 bands**

Interfaces: **IBM system 34/36/38**

Feed Options: **Tractor**

Paper width: **3" - 18"**

Price: **POA**

Supplier: **Genicom (Australia) Pty Ltd**

Quietjet Plus Printer

Technology: **Inkjet**

Resolution: **192 x 192dpi**

Matrix: **19 x 16 draft, 32 x 19 NLQ**

Buffer: **2k expandable to 18k**

Character Sets: **HP Roman 8, IBM PC, ISO 7-bit languages**

Paper width: **15"**

Price: **\$1531.00 ex tax, \$1736.00 incl tax**

Supplier: **Hewlett Packard Australia**

Quietjet Printer

Technology: **Inkjet**

Resolution: **192 x 192dpi**

Matrix: **19 x 16 Draft mode, 32 x 19 NLQ**

Buffer: **2k expandable up to 18k**

Character Sets: **HP Roman 8, IBM PC, ISO 7-bit languages**

Interfaces: **Centronics/RS232C**

Feed Options: **Friction, tractor**

Print positions: **80**

Paper width: **9 3/4"**

Price: **\$1082.00 ex tax, \$1227.00 including tax**

Supplier: **Hewlett Packard Australia Limited**

SQ-2000

Secret of print quality, speed and quiet operation is the ink-jet printing mechanism. There is a rich variety of type faces including 11 foreign language character sets. A choice of extra speed or top quality, full hardware/software control and paper feed options.

Technology: **Letter quality Ink-Jet Printer**

Resolution: **180 x 24dpi**

Speed: **176/105cps**

Buffer: **2k**

Character Sets: **11 foreign, ASCII**

Interfaces: **Centronics, IEEE-488, RS232C, etc.**

Feed Options: **Friction, adjustable, sprocket pin feed**

Print positions: **Programmable 180cpi**

Price: **\$1900.00 ex tax**

Supplier: **Epson Australia Pty Ltd**

Scanjet

Technology: **Charge coupled device**

Resolution: **600dpi**

Speed: **20.4sec.**

Interfaces: **Bidirectional Centronics**

Feed Options: **Flatbed, auto. document feeder**

Paper width: **Glass 216 x 297mm, doc**

feeder **216 x 356**

Price: **\$2807.00 ex tax, \$3116.00 including tax**

Supplier: **Hewlett Packard Australia Limited**

Automatic Sheet Feeder

The BDT range of Automatic Sheet Feeders (models ASF 521, 522, 523 and 524) are compatible with essentially all word processing and data processing printers. Controlled by the host printer, this range features: manual insertion chutes, permitting manual paper insertion at any time during the automatic operation; adjustable paper bins; (except for the 523) can collate printed media in forward or reverse format.

Price: P.O.A.

Supplier: Practical Peripherals Corp.

Diamond Systems Printer Qr

The Diamond Systems Printer Qr is an intelligent data buffering and queueing device which allows a number of computers to share printers. The Qr features dynamic buffer allocation, sophisticated character compression and a comprehensive set of commands used for printer selection, copies, single sheet feed control and more. Australian manufactured.

Technology: Z80A cpu

Buffer: 128 or 512k

Interfaces: RS232in, RS232/Centronics out

Price: 128k - \$957.00; 512k \$1171.00 ex tax

Supplier: Diamond Valley Micro Systems

ESI-1312 Laser Connection Driver

The user can access the Laserjet's many features using familiar word processing commands. Text characteristics, alternate keyboards, landscape printing are all supported by the laser connection driver which emulates an IBM Class C device. The driver supports embedded escape sequences and can be configured for user requirements, it can be automatically enabled and disabled from Display Write. Executes with no extra commands to type when switching application programs. Supports both background and foreground printing.

Character Sets: All laserjet

Paper width: 8.5 x 11, A4, legal, and non-standard

Compatibility: IBM PC/XT/AT

Price: \$1607.00

Supplier: Interface Technology of Australia

ESI-1317 Laser Connection Driver

Laser Connection Driver intelligently supports the Digital Equipment LN03 printer on IBM's Displaywrite 2 and 3. The user can access the LN03's many features using familiar word processing commands.

Character Sets: All LN03

Compatibility: IBM PC/XT/AT

Price: \$1607.00

Supplier: Interface Technology of Australia

Forms Flipper OM100

The BDT Forms Flipper collates finished pages from your laser printer in correct order. Forms Flipper's 400 sheet hopper is 16 times larger than the average printer hopper, cutting down time spent by the printer emptying it. For use with Apple, Canon, Corona, Datapoint, Hewlett Packard, Impact, QMS or Wang laser printers.

Price: P.O.A.

Supplier: Practical Peripherals Corp.

LQP02 Protocol Converter

DEC printer buyers now can use the LQP02 Protocol converter to send output intended for a DEC LQP02 to a Diablo or Diablo compatible printer. The LQP02 AB option allows the user to output either via Diablo 630 protocol conversion or 'straight through' (no protocol conversion).

Interfaces: Serial

Compatibility: All DEC

Price: \$586.00

Supplier: Interface Technology of Australia

LaserShare

Print spooler for use on AppleTalk network. Enables rapid completion of print jobs at users workstation by buffering print data at a central spooling machine.

Technology: Print spooler

Compatibility: Macintosh

Other Req's: Min memory 1Mb, 20Mb

Price: \$595.00

Supplier: Apple Computer Australia Pty Limited

Laserfeeder MF850

The BDT Laserfeeder allows three types of paper plus envelopes to be selected and printed automatically, automatically expanding the printer's internal 100 sheet paper supply by an additional 440 sheets and at least 50 envelopes. Total capacity to allow over an hour's production at full

printer speed. Compatible with Apple, Canon, Corona, Datapoint, Hewlett Packard, Impact, QMS, Wang laser printers.

Interfaces: V24 (RS232), RS422

Price: P.O.A.

Supplier: Barrington Corp.

Practical Peripherals Corp.

LetterMate I/e

These BDT LetterMate sheet feeders are for use on most popular PC systems and are available for both 8 and 132 character widths. An optional second bin for added sheets or envelopes available on many models. Capacity up to 100 sheets of 20lb bond.

Price: P.O.A.

Supplier: Practical Peripherals Corp.

Lipton T Switch

The Lipton T-Switch is primarily a 'Computer - Printer sharer'. It is a manual switching device consisting of a mechanism and wafers for maximum reliability. The T-Switch range is quite extensive, going from 6 computers to 1 printer and vice-versa, to cross-overs and four printers to 1 computer. They are compact, durable and come housed in an attractive heavy duty metal box.

Compatibility: IBM, RS232/Centronics

Price: P.O.A.

Supplier: Lipton and White

Mac Universal Printer Interface

The Universal Printer Interface allows you to connect any serial or parallel printer to the Macintosh. The UPI has both Centronics parallel and adjustable baud rate serial output ports, and all necessary software is resident in the interface itself which will emulate the Apple Imagewriter II printer. The UPI incorporates an 80k buffer, with 64k being available for use as a print spooler. The UPI will also work on the Apple IIc. This product is Australian made and supported.

Buffer: 80k

Compatibility: Macintosh, Apple IIc

Op.Sys: Macintosh

Price: P.O.A.

Supplier: Symbiotic Computer Systems

PS Jet

The PS Jet is an upgrade to transform any Canon engine laser printer. From a daisy wheel functionality to a fully operative postscript printer. This enables you to print complex text, graphics or digitised images. Postscript still the ultimate printing tool for Xerox Ventura Publisher and

other desktop publishing packages.

Resolution: **300dpi**

Speed: **8ppm**

Buffer: **2Mb**

Character Sets: **13 type faces in 4 font families**

Interfaces: **RS232C/RS422/AppleTack**

Feed Options: **Single sheet only**

Paper width: **Letter, legal, A4, B5**

Compatibility: **IBM & compatibles, Mac AT&Ts plus others**

Other Req's: **Canon Laser or derivative**

Price: **\$6250.00**

Supplier: **Megavision Pty Ltd**

Printer Converter Buffer

The Model 163 can either convert serially transmitted data into Centronics Parallel printer format or convert from Centronics Parallel printer interface format to Serial format. It is a microprocessor based device which finds use in matching Parallel printers to Serial interfaces and Serial printers to Parallel ports. The device handles the XON/XOFF protocol and provides

an optional 8 or 32k buffer.

Price: **\$398.00**

Supplier: **Unique Micro Design Pty Ltd**

Printer Optimizer

The optimizer is a highly intelligent print and plot spooler with buffer memory of up to 1Mb. It allows connection of up to 3 printers, plotters or other device, deleting the destination of all output and directing it accordingly. It pauses automatically for paper change and can replot from the buffer, assign priorities to tasks and store data for later use.

Buffer: **1Mb**

Price: **\$988.00 - \$3305.00**

Supplier: **Interface Technology of Australia**

Printmaster 700 Printer Controller

Printmasters allow users to share, select and/or contend for single or multiple printers simultaneously. All models are user-programmable and allow different

combinations of parallel and serial devices as well as different parameters for each port. 6, 8, and 10 port models are available.

Buffer: **512k or 1Mb**

Interfaces: **Parallel, Serial or combinations**

Price: **\$2190.00 - \$2690.00**

Supplier: **Shuttle Datacomm Pty Limited**

Standalone Share Spool Intelligent Iface

The sharespool print buffer allows up to seven computers to print to one printer. Up to 512k of buffer memory. The sharespool automatically buffers and manages print output so that all users can 'print' simultaneously. Individual users can request multiple copies of any job and high priority jobs can be pushed to the front of the queue. An internal version allows 2 other computers to share the printer and retails for \$1288.00 to \$1742.00

Price: **\$2033.00 - \$1742.00**

Supplier: **Interface Technology of Australia**

TRUE OFFICE AUTOMATION WITH PCs

Until now PC networks have offered Resource Sharing, but lacked true Office Automation (OA) functionality. The Independent Microcomputer Group (TIMS) can provide the hardware and software for a PC solution comparable to the best mainframe OA systems such as IBM's Office/36 at a fraction of the cost.

Features include:

- **Cache memory (using Novell) for efficient disk management**
- **Large hard disk capacity of 20MB to 2000MB per PC server**
- **Redirection of Lotus 123 to shared laser printer or plotter**
- **Multi-user word processing with any of the top 5 WP packages**
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- **Comprehensive multi-user accounting systems to suit**
- **Messaging & electronic mail from any user to any user**
- **Telephone "message pad" with supervisor overview function**
- **Full dial-in capability for working from home/client sites**
- **Automatic encrypted document transfer to other offices**
- **Calendar functions with authorised staff able to book anyone**
- **Multi-resource group booking calendar facility (available 2/87)**
- **On-line Help facilities for all MS-DOS functions**
- **Comprehensive support & training in each state capital city**

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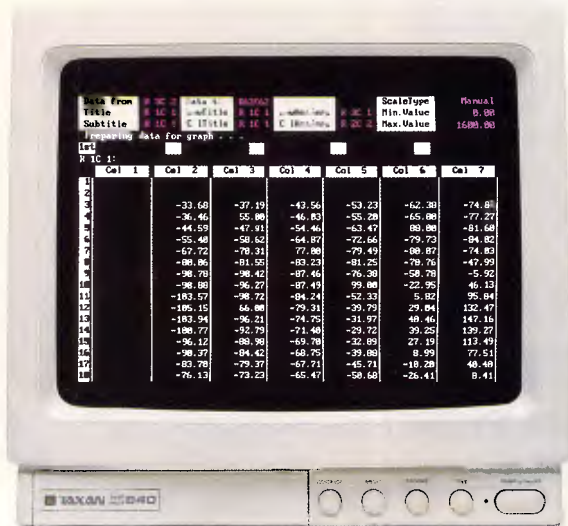


TGA mode (640x400)

You'll see a lot more on our new monitor whichever way you look at it.



EGA mode (640x350)



Improved CGA text mode

Whether you're running TGA, EGA or CGA software, the new Taxan SuperVision 840 monitor from Megavision will really open your eyes.

It has a full 16" screen. Higher than industry standard horizontal scan rate of 25 KHz. Giving you sharp, clean text, bright clear colours and crisper, clear chart titles. All without annoying screen flicker. And a doubled line count of 640x400 will improve even your original CGA software.

The 840 monitor comes complete with the breakthrough Taxan Gold Card — a graphics adapter which switches display modes between modes between TGA, EGA and CGA, automatically. Allowing you to run all software, and add new programs with different display standards to your software library without, worry about compatibility.

The Taxan Gold Card is also equipped with a built-in serial port. Making it easier to use mouse driven software like Windows, without buying a separate board or giving up valuable expansion slots in your PC.

And, best of all, the Taxan Gold Card not only complements our new 840 monitor, but is also designed to work with our new SuperVision 650 monitor — an upgrade of our popular SuperVision 4.

Our 840 and 650 monitors and Gold Card are fully compatible with the IBM PC/XT/AT compatibles, the Olivetti PCs and selected 'lap-top' computers.

But don't just take our word for it. Demand to see this remarkable combination for yourself.

And discover how much more efficient CAD/CAM and Desk Top Publishing applications can be when you see things more clearly.

Graphics Mode	
TGA	Ultra-high resolution (640x400)
EGA	IBM standard (640x350)
CGA	Double-scanned, high-quality image

RGB Monitor Applications	
Model 840	16-inch, large-screen CAD/CAM graphics, 0.39mm dot pitch
Model 635	Superior text display and business graphics
Model 650	Personal CAD/CAM graphics, 0.28mm dot pitch



Distributed throughout Australia by



Multi-Resolution System and Taxan Gold Card are trademarks of Taxan USA Corporation.

*Graphics shown in TGA mode produced by Perspective graphics presentation package available from Megavision. MG1FPC

Monitors

The evolution of word processing and large online data entry systems has brought the problems of working in front of a 'television set' all day into prominence. Ergonomics is now an industry in its own right and while many ergonomic problems concern the positioning and layout of the keyboard, monitors have had to take a fair amount of flak. Amongst other things they have been accused of increasing the rate of miscarriages in pregnant users. They are certainly the cause of eyestrain and headaches for many users, the basic problem being that our eyes are designed for looking at objects rather than screen-based graphic representations. There are three basic problems. Computer images are made up of small dots which force our eyes and mind to work quite hard, recognizing the patterns which they are supposed to represent. The more dots used to make up the pattern the easier this task is which is why screen resolution (the number of dots per inch) is such an important consideration.

Screen resolutions are steadily increasing but high resolution monitors are still expensive. While you may not

wish to pay thousands of dollars just for the monitor at each of your data entry terminals it is a worthwhile investment to make where any application requires screen-intensive work.

Most monitors are video based and made up of rapidly pulsing signals. Any variation or flickering of the image is immediately disturbing. This can be especially obvious when the information on the screen moves (is scrolled). A lot of work has gone into eliminating 'flicker' on screen displays and may be handled by the graphics adaptor board inside the computer or the electronics in the monitor itself. It is certainly worth paying a little extra for.

The third, most difficult problem is that video and gas plasma displays emit light. This makes intensive use of them rather like staring at a light bulb all day. Liquid crystal displays do not emit light but so far are not capable of the resolutions required to make them easy to read. A quite different, compromise solution pioneered by Apple with the Macintosh is to have the characters or graphics appearing in black on a white background, allowing the brightness to be turned down con-

siderably. More software is appearing which employs this technique and a range of 'paperwhite' monitors is available to facilitate this.

The best resolutions are available on monochrome monitors. Some applications require colour and simple text based applications may be considerably enhanced with coloured warning messages and highlighting. Monitors which can switch between colour and monochrome modes are only capable of the colour mode's resolution and are always more difficult to read than dedicated monochrome screens.

For applications like word processing a monochrome monitor is probably best, for applications where responding to signals from the computer or where colour is desirable a colour or switchable monitor may be most suited. For any application where the screen must be studied, such as graphics, the highest resolution possible should be provided and if colour is required as well this might be quite expensive. Monitors with resolutions greater than 800 x 400 dots have been listed in the High Resolution Monitor section of this chapter.

MONITOR MASTERY

Sakata's mastery of producing top-quality monitors is unrivalled.

Some monitors are hard on the eyes and the pocket.

The Sakata range of mono and colour monitors offer excellent resolution and real value for money. Ask your dealer to show you the Sakata range today.



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95217 ITT Enhanced Graphics Monitor

Machines: ITT Xtra, Xtra XP, Xtra XL, ATW 286
Screen: 14" diagonal
Char's per line: 40 or 80
Price: \$1730.00
Supplier: Standard Telephones & Cables

95218 ITT Colour Monitor

Machines: ITT Xtra, Xtra XP, Xtra XL, ATW 286
Screen: 14" diagonal
Char's per line: 40 or 80
Price: \$1535.00
Supplier: Standard Telephones & Cables

ADE 55

This model has a dark face tube, 0.39 dot pitch and runs amber, green and colour modes (user switchable).
Switchable Colour/mono
Machines: IBM PC & compatibles
Screen: 14"
Char's per line: 80
Price: \$675.00 including tax
Supplier: Ade Computers

ADE 66

This monitor automatically switches between colour and EGA mode (dependant on card driving). It has a dark face tube, 0.13 dot pitch and runs amber, green and colour modes (user switchable).
Switchable Colour/mono
Machines: IBM PC/XT/AT & compatibles EGA or colour
Screen: 14"
Resolution: 640 x 350
Char's per line: 80
Price: \$1050.00 including tax
Supplier: Ade Computers

Apple Color High Res. RGB Monitor

Used with Macintosh II to display up to 256 colours per pixel simultaneously from a palette of more than 16 million colours.
Machines: Macintosh II
Screen: 13"
Resolution: 640 x 480 pixels
Other Req.: Macintosh II Video Card
Price: \$1911.00
Supplier: Apple Computer Australia Pty Ltd

Apple Color Monitor IIc

Will display 80 column monochrome text clearly. Has colour kill switch and control knobs located at front of unit.
Switchable Colour/mono
Machines: Apple IIc
Screen: 13"
Resolution: 200
Char's per line: 80
Other Req.: Modified NTSC input - composite video
Price: \$795.00
Supplier: Apple Computer Australia Pty Limited

Apple Color Monitor IIe

Will display 80 column monochrome text, clearly. Has colour kill switch, and control knobs located at front of unit.
Switchable Colour/mono
Machines: Apple IIe
Screen: 13"
Resolution: 200
Char's per line: 80
Other Req.: Modified NTSC input, composite video
Price: \$795.00
Supplier: Apple Computer Australia Pty Ltd

Apple Color RGB Monitor

High quality colour display for the Apple IIGS using analogue RGB input to display any of 4,096 colours available from the IIGs.
Machines: Apple IIGs
Screen: 12"
Resolution: 640 x 200 pixels
Char's per line: 80
Other Req.: Analog RGB
Price: \$995.00
Supplier: Apple Computer Australia Pty Ltd

CC-121

The CC-121 is a RGB, 37mm dot pitch, dark face, 12" colour monitor. Full compatibility with IBM PC via optional C-100 connection cable. Features include a resolution of 645 x 240 and bandwidth 18MHz.
Machines: IBM PC/XT/AT & compatibles
Screen: 12"
Resolution: 640 x 240
Char's per line: 80
Price: \$878.92 excluding tax, \$995.00 in-

cluding tax
Supplier: Roland Corporation Australia Pty Limited

CD-240

The CD240 is a 12" high resolution RGB monitor. Resolution is 720 x 400. Features include 0.31 dot pitch black matrix; non glare surface; dark glass; long persistence phosphor; bandwidth 22MHz; scan frequency 24 - 26.5 x 54 - 60KHz.
Machines: IBM PC/XT/AT & compatibles
Screen: 12"
Resolution: 720 x 400
Char's per line: 132 using STB Chauffeur HT
Price: \$1143.92 excluding tax, \$1295.00 including tax
Supplier: Roland Corporation Australia Pty Limited

CES EGA Monitor and Card

This completely EGA compatible monitor comes with an EGA card assembled in Australia from Japanese and Taiwanese chips.
Machines: IBM PC/XT/AT & compatibles
Screen: 14"
Resolution: 720 x 350
Char's per line: 80
Price: \$995.00
Supplier: Computer & Electronic Services

CPD1301E

The CPD-1301E is a high resolution character display designed for use with microcomputers, character generators or videotex (viewdata) units having either analog or digital RGB output.
Screen: 13" (33 cm)
Resolution: 800 x 240 dots
Price: \$880.00 tax free, \$1056.00 tax paid
Supplier: Sony (Australia) Pty Ltd

Compaq Colour Monitor

When used with Compaq portables the screen in use can be toggled with a keyboard command.
Machines: Compaq deskpro, all Compaq portables
Screen: 14"
Resolution: 640 x 350
Char's per line: 80 25 lines per screen
Other Req.: Compaq enhanced

colour adaptorPrice: **\$1397.00 including tax**Supplier: **CCA Systems Pty Limited****Conrac**

The Conrac range of monitors is available in colour and monochrome with various resolutions and sizes.

Switchable Colour/mono

Machines: **Any**Screen: **13" and 19"**Resolution: **Normal to superhigh**Price: **\$4000.00 - \$1000.00**Supplier: **Magna Techtronics (Australia) Pty Ltd****DACOS Te5153/5154
Colour Display Monitor**

The DACOS TE5153 and TE5154 are high resolution, IBM PC, PC/XT, PC/AT compatible colour display monitors.

Machines: **IBM PC/XT/AT & compatibles**Screen: **14"**Resolution: **720 x 350**Price: **\$816.56 (TE5153), \$1137.99**

(TE5154) including tax

Supplier: **Data Cable****DSE Multitech 14"
RGB Monitor**

This monitor is a 14" RGB monitor suitable for use with a CGA or EGA card in CGA emulation. Video bandwidth of 14MHz and scanning frequency of 15.75KHz. Switchable multi-display green/amber/16 colour. Power consumption of 20 watts (Max).

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**Screen: **14"**Resolution: **640 x 200**Char's per line: **80**Other Req.: **CGA or EGA**Price: **\$949.00**Supplier: **Dick Smith Electronics Pty Ltd****DSE Multitech 14" Hi
Res Monitor**

The monitor is a 14" Hi Res RGB monitor suitable for use with an EGA or CGA card. Video bandwidth of 20MHz and scanning frequency of 21.85KHz switchable multi-display mode green/amber/16 colour. Power consumption of 80 watts (Max).

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**Screen: **14"**Resolution: **640 x 350**Char's per line: **80**Other Req.: **EGA or CGA card**Price: **\$1299.00**Supplier: **Dick Smith**

Electronics

Pty Ltd

General Color Monitor

Digital/analogue input. Positive/negative sync. input.

Screen: **14"**Resolution: **640 x 242**Char's per line: **80**Other Req.: **RGBI input**Price: **P O A**Supplier: **Micron Computers Australia****HX-12 High Resolu-
tion Monitor**

The HX-12 RGB monitor gives you high resolution and fine dot pitch (0.31mm) which results in cleaner, sharper images. It also features a full range of 16 superb colours and crisp whites without red bleed.

Machines: **IBM PC/XT/AT & com-****patibles, Apple IIe**Screen: **215 x 160 mm**Resolution: **640 x 200**Char's per line: **80 x 25**Other Req.: **Special interface required for Apple IIe.**Price: **\$795.00 plus tax**Supplier: **Intelligent Systems Australia****HX-12E High Resolu-
tion Monitor**

The HX-12E is an IBM compatible RGB monitor that is compatible with the IBM enhanced graphics adaptor, which offers you a total of 64 high resolution colours.

Machines: **IBM PC/XT/AT & com-****patibles**Screen: **215 x 160 mm**Resolution: **640 x 350**Char's per line: **80 characters x 25 rows**Price: **\$895.00 plus tax**Supplier: **Intelligent Systems Australia****HX-9 High Resolution
RGB Monitor**

The HX-9 lets you view colourful graphic images and characters that have sharp, clear definition, while taking up less desk space than most monitors on the market today. The HX-9's impressive image quality results from its high resolution (640 x 200) and its fine (0.28mm) dot pitch.

Machines: **IBM PC/XT/AT & com-****patibles, Apple II's**Screen: **160 x 120 mm**Resolution: **640 x 200**Char's per line: **80 characters x 25 rows**Other Req.: **Interface required for Apple II Series.**Price: **\$695.00 plus tax**Supplier: **Intelligent Systems Australia****HX-9E High Resolu-
tion Monitor**

The first nine inch IBM compatible high resolution RGB monitor to support the enhanced graphics adaptor standard. The HX-9E also features a 0.28mm dot pitch and a brilliant 64 colour display.

Machines: **IBM PC/XT/AT & com-****patibles**Screen: **160 x 120mm**Resolution: **640 x 350**Char's per line: **80 characters x 25 rows**Price: **\$945.00 plus tax**Supplier: **Intelligent Systems Australia****IBM Colour Display**

The IBM Colour Display is a high resolution 13 inch direct-drive display. It is driven by the IBM Colour/Graphics Monitor Adaptor. The IBM Colour Display enhances displays of business data, word processing and graphics.

Machines: **IBM PC/XT/AT & compatibles**Screen: **13"**Resolution: **640 x 200**Char's per line: **80**Other Req.: **IBM Colour/Graphics Monitor Adaptor**Price: **P O A**Supplier: **IBM****IBM PC Enhanced
Color Display**

The IBM PC Enhanced Color Display provides a higher level of colour graphics for IBM PC's, PC-XT's and PC-AT's. Text and graphics applications are supported. Features include 640 x 350 support in up to 64 colours for graphics (16 colours at one time when operating with EGA, CGA); high quality (8 x 14" character box) text in colour; dark etched screen for high contrast with reduced glare; brightness and contrast controls at front of display.

Machines: **IBM PC/XT/AT & compatibles**Screen: **13"**Resolution: **640 x 350/200, 320 x 200**Char's per line: **80**Price: **P O A**Supplier: **IBM**

PARCO WILL LEAD YOU TO THE PARADISE OF COMPUTERS

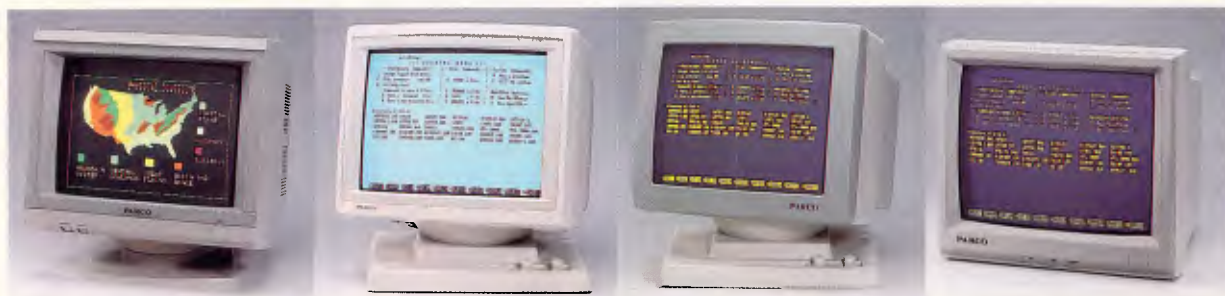
SINCE 1973, WE HAVE BEEN PRODUCING COILS AND TRANSFORMERS FOR TV'S, MUSIC CENTER, ETC. IN 1978, WE ESTABLISHED OUR COMPUTER DEPARTMENT TO SPECIALIZE IN MONITORS, AND OUR CURRENT MONITOR PRODUCTION LEVEL IS 50,000 UNITS PER MONTH. NOW WE HAVE 12", 14" TTL AND DUAL FREQUENCY, 14" (FLAT SURFACE) PAPER WHITE, AND HIGH RESOLUTION COLOR MODELS, ALL OF THEM FCC AND UL APPROVED.

CHOOSING US AS YOUR PARTNER WILL SAVE YOUR TIME AND LOWER YOUR COSTS. CONTACT US FOR MORE INFORMATION ABOUT OUR FULL LINE OF PRODUCTS.



Feature:

- Fully plug-compatible with IBM PC equipped with color card or enhanced card.
- 0.31mm Tri-Dot pitch super-high resolution, clear & sharp image.
- High performance 16 colors or 64 colors display.
- Auto-Adjusting 15.75kHz and 21.85kHz scan frequency.
- Switching mode power supply for wide range power input and low power dissipation.
- 3-Mode text switch (green/color/amber) is provided on the front panel.



Feature:

- Fully plug-compatible with IBM PC equipped with color card.
- High performance 16 colors display.
- 0.39mm Dot pitch high resolution clear & sharp image.
- 3-Mode text switch (green/color/amber) is provided.

Feature:

- With flat surface tube display.
- Styled for IBM PC & similarity compatible computers.
- Paper-White Phosphor Easy-on-the-eye.
- Inverse switch reverse white and black images.
- With tilt & swivel stand.

Feature:

- Composite/TTL monochrome.
- With flat surface tube display & high resolution picture
- Compatible with IBM monochrome card and IBM color card or similarity compatible computers.
- Green or amber display selectable.
- With tilt & swivel stand.

Feature:

- Styled for IBM PC & similarity compatible computers.
- Green or amber display selectable.
- With tilt & swivel stand.

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IBM PC Professional Graphics Display

The IBM PC Professional Graphics Display, when connected to the IBM PC Professional Graphics Controller, provides high definition graphics for the IBM PC-AT, PC-XT and PC Expansion Unit. It features red, green and blue analog input devices; separate brightness, contrast and on/off controls; OCLI anti-reflective coating; darkened screen for enhanced contrast; non-interlaced 60Hz refresh/flicker-free; 0.31mm shadow mask CRT that provides clarity and detail; 256 colours simultaneously from a palette of 4096 colours.

Machines: IBM PC/XT/AT & compatibles

Screen: 14"

Resolution: 640 x 480

Char's per line: 80

Other Req.: IBM PC Professional Graphics Controller (uses two slots).

Price: P O A

Supplier: IBM

MacMonitor RGB

MacMonitor RGB is a colour 26" monitor especially matched to the Colour MacVideo Board for use in displaying black and white images of the Macintosh screen.

Switchable Colour/mono

Machines: Macintosh

Screen: Macintosh

Price: P O A

Supplier: Symbiotic Computer Systems

Microbee 7030 RGB Colour Monitor

A high quality RGB colour monitor offering high resolution and compatible with any IBM PC or compatible computer with a CGA type RGB output connector. Etched low reflection screen, comes complete with video cable.

Machines: IBM PC/XT/AT & compatibles

Screen: 12" (34 cm)

Resolution: 640 x 200 pixels

Char's per line: 80

Price: \$899.00

Supplier: Microbee Systems Ltd

Micron Color Monitor

Switchable to green and amber, black screen tube.

Switchable Colour/mono

Screen: 14"

Resolution: 640 x 242

Char's per line: 80

Other Req.: RGB input

Price: \$799.00

Supplier: Micron Computers Australia

NCR high resolution screens

The monochrome 15" non-glare screens have 16 shades of grey, a tilt and swivel base and an optional graphics capability. A screen adaptor is included. The colour screen is 14", non-glare with 16 colours. It has graphic capabilities and a screen adaptor is included.

Switchable Colour/mono

Machines: NCR PC8

Screen: 15" mono; 14" colour

Resolution: 640 x 400

Char's per line: 80 x 25

Price: \$1097.00 - \$1750.00

Supplier: NCR Australia Pty Limited

NCR standard resolution colour monitors

16 colours, non-glare screen, optional tilt and swivel base.

Machines: NCR

Screen: 12"

Resolution: 640 x 200

Char's per line: 80 x 25

Price: Up to \$1009.00 excluding tax

Supplier: NCR Australia Pty Ltd

NEC Multisync

Screen: 14"

Resolution: 600 x 800

Price: \$1750.00 excluding tax

Supplier: Hytec Electronic Pty Ltd

NEC Multisync Monitor

The Multisync monitor provides multiple display standards on the one monitor. When used with a display card such as Video 7's Vega deluxe it will automatically switch between modes according to the needs of the software.

Machines: IBM PC/XT/AT & compatibles

Price: \$1804.00

Supplier: Tech Pacific Pty Ltd

Hytec Electronic Pty Ltd

NEC Information Systems

National Panasonic TX-14M66

14" diagonal EGA compatible colour display, dual mode capability, standard 16 colour (mode 1) or 64 colour (mode 2) display. High resolution 640 x 200 (mode 1)

or 640 x 350 (mode 2). High contrast non-glare screen.

Machines: IBM PC/XT/AT & compatibles

Screen: 14"

Resolution: 640 x 350

Other Req.: Requires an EGA graphics card

Price: \$1625.00

Supplier: Porchester Computers

Qubie Enhanced Colour Monitor

0.31mm dot pitch, suit CGA/EGA graphics adaptors.

Machines: IBM PC/XT/AT & compatibles

Screen: 14"

Resolution: 640 x 350

Char's per line: 80 x 25

Other Req.: Colour graphics or enhanced graphic display adaptor

Price: \$950.00

Supplier: Super-PC

SR-12 Super Resolution Monitor

The SR-12 is a super high resolution (690 x 480) RGB monitor which produces sharp, clean graphics and vibrant colours; featuring a 0.31mm dot pitch supporting a 690 dot horizontal resolution.

Machines: IBM PC/XT/AT & compatibles

Screen: 215 x 160mm

Resolution: 690 x 480

Char's per line: 80 characters x 25 rows

Price: \$1034.00 plus tax

Supplier: Intelligent Systems Australia

SR-12P Hi Res Analog Colour Monitor

The top of the line Princeton SR-12P colour monitor is an IBM compatible monitor for use with the IBM Professional Graphics Adaptor, literally placing thousands of colours at your fingertips. The SR-12P offers exceptionally high resolution (640 x 480) with a fine 0.26mm dot pitch for high quality character definition.

Machines: IBM PC/XT/AT & compatibles

Screen: 215 x 160mm

Resolution: 640 x 480

Char's per line: 80 characters x 25 rows

Price: \$1466.00 plus tax

Supplier: Intelligent Systems Australia

Sakata EGA Performer

High resolution colour monitor com-

patible with the IBM EGA standard. Capable of displaying 64 colours on a 640 x 350 grid. Also allows sharp, easily readable characters in full colour. Features a text switch, anti-glare screen and a 0.13mm dot pitch mask for high definition colour graphics.

Machines: **IBM PC/XT/AT & compatibles**

Resolution: **350**

Char's per line: **80**

Other Req.: **EGA Adaptor**

Price: **\$1335.00**

Supplier: **Multitech Computers Pty Ltd**

Sakata SC-200E

Versatile colour graphics monitor. Capable of displaying 16 colours in a 640 x 200 grid. Fully compatible with PC-colour graphics adaptor, or with EGA in CGA mode.

Machines: **IBM PC/XT/AT & compatibles, Apple, Comm.**

Other Req.: **Colour graphics or EGA Adaptor.**

Price: **\$715.00**

Supplier: **Multitech Computers Pty Ltd**

Sakata SC200E

RGB high resolution video signal; 8 colours and intensity (16 colours); 13" CRT, 90 degrees inline, 0.42mm dot pitch; 2,000 characters (80 x 25).

Machines: **IBM PC/XT/AT & compatibles**

Screen: **13"**

Resolution: **640**

Char's per line: **80**

Other Req.: **CGA card**

Price: **\$664.00 including tax**

Supplier: **Emona Computers Pty Ltd**

TVM Colour Monitor

Screen: **14"**

Resolution: **Up to EGA standard**

Price: **From \$600.00**

Supplier: **Hypac Electronic Pty Ltd**

TVM MD3

A multi display monitor with green and amber mono modes as well as full colour. 12 month warranty.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**

Screen: **14"**

Resolution: **640 x 240 non-interlaced**

Char's per line: **80**

Other Req.: **CGA**

Price: **P O A**

Supplier: **Lysco**

TVM MD7

Top quality EGA monitor with 12 months warranty. Various monochrome modes as well as full EGA colour.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**

Screen: **14"**

Resolution: **720 x 360 (non-interlaced)**

Char's per line: **80**

Other Req.: **EGA**

Price: **\$700.00**

Supplier: **Lysco**

Tatung CM-1360 Monitor

An IBM CGA compatible, RGBI high resolution monitor with a 0.39mm dot pitch. It has 16 colours with a switch for green, normal or amber display.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatible**

Screen: **13"**

Resolution: **640 x 200 (non-interlaced)**

Char's per line: **80**

Price: **\$999.00 ex tax**

Supplier: **IPL Datron**

Tatung CM-1365 Monitor

An IBM CGA compatible, RGBI Hi res monitor with a 0.39mm dot pitch. It has 16 colours and a multi-colour display with switch for green, amber, normal, paper white and white on blue display.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**

Screen: **13"**

Resolution: **640 x 200 (non-interlaced)**

Char's per line: **80**

Price: **\$1099.00 ex tax**

Supplier: **IPL Datron**

Tatung CM-1376 Monitor

This monitor is ideal for CAD applications, IBM PGA compatible with 4096 colours, 0.31mm dot pitch.

Machines: **IBM PC/XT/AT & compatibles**

Screen: **13"**

Resolution: **640 x 480 (non-interlaced)**

Char's per line: **80**

Other Req.: **RGB Analog input.**

Price: **\$1369.00 ex tax**

Supplier: **IPL Datron**

Tatung CM-1380F Monitor

An IBM CGA & EGA compatible, super high resolution monitor with 16 colours and a switch for green, normal, or amber display.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**

Screen: **13"**

Resolution: **640 x 200 or 640 x 350**

Char's per line: **80**

Price: **\$1459.00 ex tax**

Supplier: **IPL Datron**

Taxan Super Vision 625

The Taxan Supervision 625 colour monitor supports the IBM colour graphic standard. This monitor delivers strong colours plus crisp line definition along with the facility of selectable text modes to enable the user to choose a monochrome screen of green, amber, black and white, or blue and white, at the touch of a button, and similarly return to a high quality colour display in the same fashion.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**

Screen: **12"**

Resolution: **640 x 220 2 colours (320 x 200 4 cols)**

Char's per line: **80**

Other Req.: **Taxan KIF-545 colour graphics adaptor or CGA equivalent**

Price: **\$1200.00 ex tax**

Supplier: **Megavision Pty Ltd**

Taxan Super Vision 635

The Taxan Supervision 635 is designed to provide high quality text and graphics display to the user. Used in conjunction with the Taxan KIF-3800SP graphics board, this monitor will display CGA software double scanned to 400 lines, together with a 7 x 9 dot character within a 10 x 16 cell thereby providing clarity of character definition, eliminating eyestrain and drastically decreasing transcription errors.

Machines: **IBM PC/XT/AT & compatibles**

Screen: **12"**

Resolution: **640 x 400**

Char's per line: **80**

Other Req.: **Use with KIF-3800SP**

Graphics Adaptor/Taxan Gold Card

(KIF-557) or equivalent.
 Price: \$1385.00 ex tax
 Supplier: Megavision Pty Ltd

Taxan Super Vision 650

The Taxan Supervision 650 is the top of the line colour monitor from Taxan using a dot pitch size of 0.28mm to give a crisp line definition together with strong colour separation. When used in conjunction with the Taxan Gold Card the Supervision 650 will display CGA Double Scan, EGA and many 400 line implemented software packages automatically at a high level of presentation.

Machines: IBM PC/XT/AT & compatibles

Screen: 12"

Resolution: 640 x 400

Char's per line: 80

Other Req.: Taxan Gold Card (KIF-557), Taxan KIF3800SP or equivalent.

Price: \$1585.00 ex tax

Supplier: Megavision Pty Ltd

Taxan Super Vision 660

The Taxan Supervision 660 is a colour monitor supporting the CGA standard. The Supervision 660 displays colour with strong definition and when used in conjunction with the Taxan KIF-560 will display EGA software and CGA software automatically. Taxan KIF-560 enhanced graphics card comes standard with 256k of memory and therefore will display EGA software in 16 colours from a palette of 64 when required. Monitor automatically switches to CGA (double scan) when CGA software is loaded.

Machines: IBM PC/XT/AT & compatibles

Screen: 12"

Resolution: 640 x 350, x 16 x 64

Char's per line: 80

Other Req.: EGA Board

Price: \$1625.00 ex tax

Supplier: Megavision Pty Ltd

Taxan Super Vision 840

The Taxan Super Vision 840 16" colour monitor provides the user with a larger working area at a resolution of 640 x 400 and proves an ideal tool for applications such as ACAD presentation graphics, desktop publishing, spreadsheeting and many others. When used with the Taxan Gold Card the Super Vision 840 will run 640 x 400 16 colour implemented software and EGA and CGA in double scan thus giving the user greater flexibility in software selection.

Suitable for classrooms, banks and 132 column emulation.

Machines: IBM PC/XT/AT & compatibles

Screen: 16"

Resolution: 640 x 400

Char's per line: 80

Other Req.: For use with Taxan Gold Card (KIF-557)/Taxan KIF3800SP or equivalent.

Price: \$2695.00 ex tax

Supplier: Megavision Pty Ltd

Teco High Resolution Colour Display

A 14" EGA/CGA screen of high presentation and performance most suitable for CAD work. A tilt and swivel stand is standard as is 12 months warranty.

Machines: IBM PC/XT/AT & compatibles, CGA or EGA

Screen: 14"

Resolution: 720 x 350

Price: \$980.00

Supplier: Ottoman Group Pty Ltd

Thomson Colour Monitor(Thomson 4165)

Anti-glare screen with text switch to amber and green. Front panel adjustment 0.38mm dot pitch.

Switchable Colour/mono

Machines: IBM PC/XT/AT & compatibles

Screen: 14"

Resolution: 640 x 200

Char's per line: 80 x 25

Price: \$675.00

Supplier: Super-PC

Hypac Electronic Pty Ltd

Thomson Dual Mode Monitor

Auto switching mode to suit both CGA and HGC graphics adaptors.

Machines: IBM PC/XT/AT & compatibles

Screen: 12"

Resolution: 720 x 348

Char's per line: 80 x 25

Price: \$230.00

Supplier: Super-PC

Thomson Monitor Model 31381

Screen: 12"

Resolution: 640 x 24

Char's per line: 80

Price: \$895.00

Supplier: Thomson Monitors Australia

Thomson Monitor Model 4470D EGA

Screen: 14"

Resolution: 680 x 350

Char's per line: 80

Price: \$1095.00

Supplier: Thomson Monitors Australia

Thomson Monitor Models 4165/4125

Screen: 14"

Resolution: 640 x 240

Char's per line: 80

Price: \$795.00 - \$875.00

Supplier: Thomson Monitors Australia

Triumph Adler P50 Colour Monitor

Very high resolution colour monitor with crisp clear colours.

Machines: IBM PC/XT/AT & compatibles

Screen: 28cm

Resolution: 640

Char's per line: 80

Price: \$1600.00

Supplier: Triumph Adler

Wyse WY630

The Wyse WY630 is an IBM PC CGA compatible monitor. It incorporates a large 14" display with tilt/swivel base and high contrast screen glass. It is compatible with standard colour graphics adaptors providing nine level green scale, 640 x 200 pixel resolution with bright 16-colour palette. The WY630 has an attractive ergonomic styling with a rich set of features and a competitive price.

Machines: IBM PC/XT/AT & compatibles

Screen: 14"

Resolution: 640 x 200 pixel

Char's per line: 80 or 132 dependent on controller card

Other Req.: CGA Graphics Card (WY430) or equivalent.

Price: \$1238.00

Supplier: MPA Pty Limited

Wyse WY640

The Wyse WY640 is an enhanced graphics colour monitor capable of displaying 16 colours at 640 x 350 pixels. The WY640 is designed to

We'd like to introduce you to some colourful characters...



ADI monitors don't just give you brilliant colours, they also offer extremely high resolution, 14" screens that are 30% larger than standard, and an ergonomic tilt/swivel base - features that are also found in ADI's monochrome range.

In addition, ADI has two super high resolution colour monitors. The PX-22 which is compatible with both AST and IBM Enhanced Colour Graphics Adaptor, and the PX-32 which is compatible with IBM's Professional Graphics Adaptor.

For full details on ADI's complete range of superior monochrome and colour monitors, call Imagineering on (02) 697 8666. They can prove that when you compare the value packed features of ADI monitors, all other computer monitors pale into insignificance.




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complement the IBM enhanced Graphics Adaptor and compatible products. In text mode it provides a sharp 9 x 14 character matrix. The vendor claims the WY640 delivers attractive styling and outstanding fea-

tures at a very competitive price. Machines: **IBM PC/XT/AT & compatibles**
Screen: **14" (355mm)**
Resolution: **640 x 350**
Char's per line: **80 or 132 dependent on**

controller card
Other Req.: **Requires EGA Controller Card.**
Price: **\$1535.00**
Supplier: **MPA Pty Limited**
three graphics standards now available and

HIGH RESOLUTION

Genius VHR Monitor 401/402

Machines: **IBM PC/XT/AT & compatible**
Resolution: **728 x 1008**
Price: **P O A**
Supplier: **Dimension Graphics Pty Ltd**

Hitachi RGB Colour Monitors

The Hitachi HM4615 and HM4619 RGB Monitors offer high resolution 1280 x 1024 colour display of a colour graphics card output. Monitors are 60Hz non-interlaced with horizontal scan rates of 48 - 52KHz or 61 - 65KHz. 15 or 19 inch screens are available in tilt and swivel cabinets. Machines: **Various Colour Graphics Cards**
Screen: **15" & 19"**
Resolution: **1280 x 1024**
Char's per line: **Dot pitch 0.28 to 0.31mm**
Other Req.: **RGB Input only.**
Price: **\$3000.00 to \$7000.00**
Supplier: **Datamatic Pty Ltd**

MDS 402 Display Screen

MDS very high resolution monitors permit text and graphics to be sharply displayed actual size. These screens will connect to any IBM compatible PC and display 66 lines of text and graphics. MDS screens have a paper-white phosphor. The resolution is 1007 x 736 pixels. The bandwidth is 100MHz which produces a razor-sharp display. Machines: **IBM PC/XT/AT & compatibles**
Screen: **15"**
Resolution: **736**
Char's per line: **132**
Other Req.: **Adaptor Card is supplied with screen.**
Price: **\$3000.00 plus tax**
Supplier: **Datatel Pty Ltd**

Monitronics MX200

The vendors claim this monitor has twice the brightness of other monitors; 120MHz bandwidth and very quick refresh time. Featuring etched screen and tilt/swivel stand. Machines: **IBM PC/XT/AT & compatibles**
Screen: **19"**
Resolution: **1280 x 1024 non-interlaced**
Other Req.: **High resolution graphics board. Recommend Artist series.**
Price: **\$9000.00 excluding tax**
Supplier: **Worldwide Business Systems**

Monitronix MX200 High Res. Monitor

Fast scan rates. Highest bandwidth on market (DC - 120MHz). Exceptional full screen linearity. Machines: **IBM PC/XT/AT & compatibles**
Screen: **19"**
Resolution: **1280 x 1024 non-interlaced**
Other Req.: **BNW Driver Board (PGA)**
Price: **\$8000.00 to \$12000.00**
Supplier: **CVA Computer & Peripheral Sales**

National Panasonic TX-2002MHG

The TX-2002MHG has a 90 degrees deflection angle, 0.32mm trio dot pitch, RGB short persistence (P22), horizontal frequency 63.73KHz, anti-reflection panel supplied, RGB input (BNC type connectors) and a video bandwidth of 100 MHz/min. It has an infinite number of displayable colours and a vertical frequency of 60Hz non interlaced. Machines: **IBM AT or compatibles**
Screen: **20"**
Resolution: **1280 x 1024**
Char's per line: **160 x 85**
Other Req.: **Orchid turbo PGA adaptor, verticom adaptor**
Price: **P O A**
Supplier: **Porchester Computers**

OMII Multiscan

Non-glare screen, tilt and swivel base, 1 year warranty. Compatible with NEC multi-scan and similar. Machines: **IBM PC/XT/AT & compatibles**
Screen: **14"**
Resolution: **800 x 500**
Char's per line: **Dependant on graphics adaptor**
Other Req.: **CGA, EGA or PGA card**
Price: **\$990.00**
Supplier: **Lysco**

PAC High Resolution Monochrome Monitor

A 14" high resolution monochrome amber or green monitor with a tilt and swivel stand as standard. Machines: **IBM PC/XT/AT & compatibles**
Screen: **14"**
Resolution: **800 lines at 20Fl**
Price: **\$308.00**
Supplier: **Ottoman Group Pty Ltd**

PG90 Graphics Display System

The PG90 from Adage's Lexidata Division is a high performance graphics display system that provides IBM Personal Computer AT users with flicker-free, high-resolution (1280x1024, 60Hz pop-interlaced) colour graphics. PG90 was designed to provide the PC/AT user with the industry's most sophisticated single-screen graphics solution available today. The combination of the PG90 and the PC/AT creates a powerful graphics workstation ideal for CAD/CAM, CAE, Defense, Oil exploration and medical imaging applications. Machines: **IBM PC/AT**
Resolution: **1280 x 1024**
Price: **\$6000.00 - \$25000.00**
Supplier: **Quentron Digital Systems**

Skai Multi Flat

The Skai Multiflat is compatible with the

also with the new IBM standards just released. The CRT is new type flat square CRT and automatically scans all colour board frequencies.

Machines: **IBM XT/AT & compatibles**
Screen: **15"**

Resolution: **800 x 560**

Other Req.: **Will run on CGA, EGA, or PGA adaptor**

Price: **P O A**

Supplier: **Porchester Computers**

Tatung CM1370 Monitor

The CM1370 monitor is RGBI super high resolution, BoB card or equivalent compatible and has a 0.31mm dot pitch. It has 16 colours and a green text mode switch.

Switchable Colour/mono

Machines: **IBM PC/XT/AT & compatibles**

Screen: **13"**

Resolution: **800 x 400**

Char's per line: **80**

Other Req.: **Works with Persyst "BoB Card" or equivalent.**

Price: **\$1299.00 ex tax**

Supplier: **IPL Datron**

VIKING 1

The Viking 1 monitor and graphics card is a

professional standard combination for use with IBM and compatible computers displaying A4 and double page in legible and definable text for desk top publishing application. With such features as hardware pan and zoom the Viking 1 is ideal for ACAD and other CAD environments and is delivered with drivers for ACAD, Microsoft Windows, Xerox Ventura Publisher, Lotus 1-2-3 (for large spreadsheet applications) and others.

Machines: **IBM PC/XT/AT & compatibles**

Screen: **19"**

Resolution: **1280 x 960**

Char's per line: **80**

Other Req.: **Delivered with Viking 1 graphics adaptor.**

Price: **\$6000.00 ex tax**

Supplier: **Megavision Pty Ltd**

Viking 10

The Viking 10 hi-resolution display system is designed to provide the CAD user with a professional screen displaying at 1024 pixels x 768 lines in 16 colours out of a palette of 4096 colours. Software drivers are available for many PC/XT/AT programs such as Lotus 1-2-3, Microsoft Windows, Xerox Ventura Publisher and others. The Viking 10 has a non-interlaced display, hardware zoom and pan and DMA access.

Machines: **IBM PC/XT/AT & com-**

patibles

Screen: **19"**

Resolution: **1024 x 768 (non-interlaced)**

Char's per line: **80**

Other Req.: **Viking 10 colour graphic card (included in price).**

Price: **\$12,000.00 including graphic card ex tax**

Supplier: **Megavision Pty Ltd**

Wyse WY700

The WY700 is a complete graphics subsystem capable of displaying both text and graphics in a very sharp 1280 x 800 pixel resolution. The WY700 comes with a 15" white phosphor monitor combined with a bit mapped video graphics board. It provides compatibility in both text and graphics with IBM monochrome and IBM CGA modes. The WY700 is ideal for Autocad and desktop publishing packages. The WY700 is fully compatible with the Wyse PC286, IBM PC, PC/XT or PC/AT.

Machines: **IBM PC/XT/AT & compatibles**

Screen: **15" (381mm)**

Resolution: **1280 x 800**

Char's per line: **160 characters x 50 lines**

Other Req.: **Includes boards.**

Price: **\$2148.00**

Supplier: **MPA Pty Limited**

MONOCHROME

95210 ITT Monochrome Monitor

Machines: **ITT Xtra, Xtra XP, Xtra XL**

Screen: **14" diagonal**

Char's per line: **40 or 80**

Price: **\$616.00 green; \$638.00 amber**

Supplier: **Standard Telephones & Cables**

95211 Dual Mode Monitor

Dual mode monitor capable of displaying text or mono graphics in 16 shades of amber or green.

Machines: **ITT Xtra, Xtra XP, Xtra XL**

Screen: **14" diagonal**

Char's per line: **40 or 80**

Price: **\$699.00 green; \$718.00 amber**

Supplier: **Standard Telephones & Cables**

Apple High Resolution Monochrome Monitor

12" (diagonal) screen with EIA P4 phosphor offering high resolution display for the Macintosh II CPU.

Machines: **Macintosh II**

Screen: **12"**

Resolution: **640 x 480 pixels**

Other Req.: **Macintosh II Video Card**

Price: **\$772.00**

Supplier: **Apple Computer Australia Pty Limited**

Apple IIGs

High resolution monochrome display for the Apple IIGs. Ideal for use with applications that don't require colour graphics.

Machines: **Apple IIGs**

Screen: **12"**

Resolution: **640 x 200 pixels**

Char's per line: **80**

Price: **\$345.00**

Supplier: **Apple Computer Australia Pty Limited**

Compaq Green/Amber Monitor

In combination with the Compaq dual-mode video adaptor this screen provides monochrome quality text as well as CGA quality graphics. With the Compaq Enhanced Colour Adaptor this display adds EGA quality graphics with the colours rendered by grey scale intensity variations.

Machines: **Compaq Deskpro, Deskpro 286/386**

Screen: **13"**

Resolution: **720 x 348**

Char's per line: **80 x 25 lines per screen**

Other Req.: **Power supply must be provided by a Compaq Deskpro**

Price: **\$444.00 including tax**

Supplier: **CCA Systems Pty Limited**

DSE Multitech 12" Green TTL

The monitor is a 12" green phosphor display screen suitable for use with MGA or EGA cards in MGA emulation. Video band width of 18MHz and scanning frequency of 18.432KHz. Power consumption of 25 watts.

Machines: **IBM PC/XT/AT & compatibles**

Screen: 12"

Resolution: 1000 x 900

Char's per line: 80

Other Req.: MGA card

Price: \$299.00

Supplier: Dick Smith Electronics Pty Ltd

DSE Multitech 14" Black & White TTL

A 14" black and white phosphor monitor that is suitable for use with MGA or EGA boards. Video band width of 20MHz and scanning frequency of 18.432KHz. Power consumption is 25 watts.

Machines: **IBM PC/XT/AT & compatibles**

Screen: 14"

Resolution: 1000

Char's per line: 80

Other Req.: MGA, EGA card

Price: \$300.00

Supplier: Dick Smith Electronics Pty Ltd

Deskmate monochrome monitor

A tilt and swivel base is provided with this monitor.

Screen: 12"

Resolution: 1000

Price: \$318.00

Supplier: Uni-X Pty Ltd

HB-122G/MB-122A

The MB-122 is an IBM compatible, TLL, 12" monochrome monitor. Features include: 720 x 350 resolution for IBM PC/XT; available with flicker-free green or amber phosphors for constant use and eyestrain-free viewing; 18MHz bandwidth; phosphor, green (P39) or amber (PDB).

Machines: **IBM PC/XT/AT & compatibles**

Screen: 12"

Resolution: 720 x 350

Price: \$419.00 excluding tax, \$475.00 including tax

Supplier: Roland Corporation Australia Pty Limited

HCM 1410

Machines: **IBM PC/XT/AT & compatibles**

Screen: 14"

Price: P O A

Supplier: SNS Leading Edge

HMM-1210

This monochrome monitor has a separate TTL signal input making it compatible with a wide range of computers.

Screen: 12"

Char's per line: 40

Price: P O A

Supplier: SNS Leading Edge

IBM Monochrome Display

The IBM Monochrome Display is a high resolution device with a 290mm diagonal, green phosphor screen. The display provides for 25 rows of 80 characters. The display modes provide underline, blinking, highlight, reverse video and non-display capability. The display is cable attached to the System Unit for power and video signal. The display is driven by a special IBM Monochrome Display and Printer adaptor that also provides for the attachment of the IBM 80 CPS Graphics Printer.

Machines: **IBM PC/XT/AT**

Screen: 290mm

Char's per line: 80 x 25

Other Req.: IBM Display printer and adaptor. Unit is not supported from the Colour/Graphics monitor adaptor.

Price: P O A

Supplier: IBM

Intra Monochrome Monitors

TTL 12" and 14" mono monitor with swivel and tilt base. Dual frequency for use with both mono and colour cards.

Machines: **IBM PC/XT/AT & compatibles**

Screen: 12" and 14"

Char's per line: 80/132

Price: \$205.00 - \$235.00 excluding tax

Supplier: Trident Computer Industries Pty Limited

MB-142

The MB-142 is an IBM compatible (TTL) monochrome monitor (14"). It has a resolution of 720 x 350, with paper white phosphor for WP and graphics. Other features include: easy-on-the eye, non-glare, dark-tint CRT; inverse switch to reverse

white and black images; 25MHz bandwidth.

Machines: **IBM & compatibles**

Screen: 14"

Resolution: 720 x 350

Char's per line: 80 or 132 using STB

Chauffeur HT

Price: \$596.00 excluding tax \$675.00 including tax

Supplier: Roland Corporation Australia Pty Limited

MacMonitor

The MacMonitor is a 26" video monitor especially modified for use with the MacVideo board to provide a large image of the Macintosh screen with sound for use in such situations as classrooms, boardrooms and lecture theatres.

Machines: **Macintosh**

Screen: 26"

Price: P O A

Supplier: Symbiotic Computer Systems

MacMonitor with PAL and TV

A 26" MacMonitor with the additional ability to display a standard PAL video signal (eg as produced by video recorder) or act as a VHF/UHF television receiver.

Machines: 26"

Price: P O A

Supplier: Symbiotic Computer Systems

Max-12 Hi-Res Amber Monochrome Monitor

The enhanced Max-12 features dynamic focusing circuitry for image sharpness that extends right from the centre to the edges and corner of the screen. The Max-12 can be used with either a colour graphics adaptor or monochrome adaptor; displaying 16 tones of brightness for clear, sharp text and graphics with the colour card, and display high resolution text and graphics with the mono.

Machines: **IBM PC/XT/AT & compatibles**

Screen: 210 x 158mm

Resolution: 720 x 350

Char's per line: 80 x 25

Price: \$295.00 plus tax

Supplier: Intelligent Systems Australia

Microbee M-15 Monochrome Monitor

Built in tilting foot, etched low reflection screen, inbuilt 10V/1.5A power supply for

powering Microbee computers.

Screen: 12" (34 cm)

Resolution: (20 MHz)

Char's per line: 80

Price: \$249.00

Supplier: Microbee Systems Limited

Micron Monochrome Monitor

Tilt swivel base.

Screen: 12"

Resolution: 640 x 200

Char's per line: 80

Other Req.: Composite video input/TTL video input

Price: \$195.00

Supplier: Micron Computers Australia

NCR standard resolution mono monitors

Non-glare screen; Hercules compatible. Optional tilt and swivel base.

Screen: 12"

Resolution: 720 x 350

Char's per line: 80 x 25

Price: From \$417.00 excluding tax

Supplier: NCR Australia Pty Limited

NEC Monochrome

Machines: 12"

Price: \$225.00 - \$380.00

Supplier: Hypec Electronic Pty Ltd

Sakata SG 2500

TTL monochrome monitor, with a centre resolution of 1000 lines. Available in green or amber phosphor, comes standard with an anti-glare screen. Suitable for wordprocessing, monochrome graphics and business software. Also available as a composite monitor.

Machines: IBM PC/XT/AT & compats

Other Req.: Monochrome, Hercules or EGA Adaptor.

Price: \$255.00

Supplier: Multitech Computers Pty Ltd

Sakata SG2000

Sharp focusing and wide band circuitry give high-resolution displays. Adjustable built-in tilt stand. Non-glare, high contrast, dark face plate.

Machines: Any micro

Screen: 12" 90 degree

Resolution: Centre 1000 lines

Char's per line: 80

Other Req.: Composite video output

RCA adaptor

Price: \$179.00 including tax

Supplier: Emona Computers Pty Ltd

Sakata SG2500/SA2500(TTL)

Sharp focusing and wide band circuitry to give high-resolution displays. Adjustable built-in tilt stand. Non-glare, high contrast, dark face plate. Available in green SG2500 and amber SA2500.

Machines: IBM PC/XT/AT & compats.

Screen: 12"

Resolution: 1000

Char's per line: 80

Other Req.: Monochrome, CMDAD or

Hercules graphics adaptor

Price: \$228.00 including tax

Supplier: Emona Computers Pty Ltd

Tatung MM1222 Monitor

Machines: IBM PC/XT/AT & compats

Screen: 12"

Resolution: 720 x 350

Char's per line: 80

Price: \$299.00 - \$319.00

Supplier: IPL Datron

Tatung MM1225 Monitor

Machines: Apple, Atari, Commodore

Screen: 12"

Resolution: 800 x 350

Char's per line: 80

Price: \$299.00 - \$319.00

Supplier: IPL Datron

Tatung MM1422 Monitor

Hi res 14 inch display ideal for CAD/CAM applications. Includes sturdy swivel base as standard.

Machines: IBM PC/XT/AT & compats

Screen: 14"

Resolution: 800 x 350

Char's per line: 80

Other Req.: Video & RGB TTL input.

Price: \$399.00 - \$419.00

Supplier: IPL Datron

Thomson Monitor Model 450 A/G/W.

Screen: 15"

Resolution: 1024

Char's per line: 80 and 132

Price: \$400.00

Supplier: Thomson Monitors Australia

Thomson Monitor Model VM 3102 IA/IG

Screen: 12"

Resolution: 35MHz

Char's per line: 80

Price: \$25.00

Supplier: Thomson Monitors Australia

Thomson Monitor Model VM3102 VG/VA

Screen: 12"

Resolution: 35MHz

Char's per line: 80

Price: \$240.00

Supplier: Thomson Monitors Australia

Thomson Monitors Model 250 G/A

Screen: 12"

Resolution: 1024

Char's per line: 80 and 132

Price: \$315.00

Supplier: Thomson Monitors Australia

Thomson Monochrome Monitor

Machines: IBM PC/XT/AT & compats

Screen: 12"

Resolution: 720 x 348

Char's per line: 80 x 25

Price: \$200.00

Supplier: Super-PC

Thomson Monochrome Monitors

Screen: 12" - 15"

Price: \$280.00 - \$450.00

Supplier: Hypec Electronic Pty Ltd

Wyse WY530

The Wyse WY530 monochrome monitor is compatible with the IBM monochrome display. It incorporates large 14" screen with high video bandwidth (20MHz), choice of green or amber phosphor, and tilt swivel base. With Hercules graphics card it provides 720 x 345 graphics dot resolution.

Machines: IBM PC/XT/AT & compats

Screen: 14" (35cm)

Resolution: 25 rows or 350 scan lines

Char's per line: 80 columns or 720

horizontal dots

Price: \$512.00

Supplier: MPA Pty Limited

Electrohome Data Graphics Monitors

The vendor claims that Electrohome monitors are the one choice for any requirement because they all have variable scan inputs. They will all latch on to any frequency (horizontal scanning frequency) between 15.75 and 33KHz. Projectors also automatically latch on to frequencies up to 70KHz with the ACP2000 CAD/CAM. All cards are catered for in the ACM

range.

Switchable Colour/mono

Machines: EVM Series, ECM Series, ECP, EDP

Screen: EVM 9" to 23", ECM 13", 19"

Resolution: All High Res. to above 1000

Price: From \$600.00 to \$2000.00, projectors to \$18000.00

Supplier: AWA Rediffusion

Intra

The Intra range of monitors is designed for use with IBM compatible systems and in-

cludes monochrome and colour models compatible with CGA and EGA graphics adaptors.

Switchable Colour/mono

Machines: IBM PC/XT/AT & compatibles

Screen: 12" and 14"

Resolution: 750 x 340, 640 x 200, 640 x 350

Char's per line: 80

Price: Mono \$190 - \$250, Colour \$495 - \$950

Supplier: Photon Computers

INTRODUCTION

Mass storage devices

Like microchips and the computers that contain them, mass storage devices have shrunk radically and at the same time increased their capacity many times over. It took many years in the laboratory to produce a commercially viable magnetic disk but that was the beginning of the revolution.

Now, 20 million characters can be stored on a disk cartridge small enough to fit into a trouser pocket. The 3 1/2" diskette can now hold 1 Megabyte of data and has a hard case and closing cover so it can safely be carried around in a shirt pocket.

The shrinking size of mass storage devices has meant that more of them can fit inside a computer. A 3kg laptop containing 20Mb of hard disk is possible and a number of add-on boards carry a 20Mb hard disk on the board. External hard disk drives which sit

under the computer and allow the hard disk packs to be removed and stored away are available as well as tape backup on small tape cartridges which hold 60Mb of data.

All of these devices are magnetic. Stray magnetic effects like radiation, strong electric currents or the earth's magnetic field can cause the deterioration of information stored on any of these devices. Optical storage overcomes this. 500 megabytes of information can be stored optically on a standard 3 1/2" diskette, for ever. This disk can be buried, dug up, and subjected to as much magnetism as you like and the information will still be accurately stored.

This means that the information is permanent and cannot be changed at will. This would make it perfect, for example, for applications currently using microfiche or microfilm as a

permanent storage method. Huge databases can be distributed on these CD-ROM disks and updated by the re-issuing of disks. Drives are now available which allow you to write to these disks but it will be some time before a standard format for these 'Write Once Read Many Times' (WORM) drives is established.

Japanese and American storage devices still have the reputation for reliability but the reputation of other Asian countries is improving — Japan, for instance, is moving much of its manufacturing offshore. The 3 1/2" diskette is going to be the new standard. It has been used on the Macintosh for nearly five years now and is the standard drive on the new IBM machines. Its hard case with the closing lid makes the data much safer and 5 1/4" diskettes will soon be as uncommon as the 8" ones are now.

Apple 3.5 Drive

The Apple 3.5 Drive stores 800k of data on a single 3.5 inch microfloppy disk and connects as an external unit to the Macintosh 512e, Plus, SE, or the Apple IIe, IIGS.

Machines: **Macintosh 512e, Plus, SE.**

Apple IIe/IIGS

Price: **\$695.00**

Supplier: **Apple Computer Australia Pty Limited**

Apple 5.25 Drive

A 5.25 inch diskette drive compatible with the entire Apple II series of computers. The drive has a connector allowing you to attach another 5.25 inch diskette drive or a 3.5 inch drive which gives 800k of extra storage.

Machines: **Apple II series**

Op. Sys.: **PRODOS DOS 3.33**

Memory: **16k**

Storage: **140k**

Other Req.: **Requires interface for Apple IIe and Apple II Plus**

Price: **\$550.00 including tax**

Supplier: **Apple Computer Australia Pty Limited**

Chinon Floppies

The floppy disk gives rotational mass storage to 1.6 Mb.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, Pick**

Memory: **360k**

Price: **From \$140.00**

Supplier: **Daneva Australia**

Cordata 1.2Mb diskette drive

Machines: **IBM PC/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1 or higher**

Price: **\$688.00**

Supplier: **Infocorp Pty Limited**

IBM 135mm 360k Diskette Drive

This is a half-high, double-sided 135mm (5.25") diskette drive with 360k storage capacity. It is an 80 track, 48 tracks per inch drive.

Other Req.: **IBM Diskette Drive Adaptor**

Price: **P O A**

Supplier: **IBM**

IBM 5 1/4" 160k Diskette Drive

The 5 1/4" Diskette Drive is a 40 track 160k

diskette drive. One or two drives may be installed in a system unit.

Machines: **IBM PC/XT/AT & compatibles**

Price: **P O A**

Supplier: **IBM**

IBM 5 1/4" 320k Diskette Drive

Up to 2 of the 5 1/4" 320k diskette drives may be installed in each system. The drive can accept either 160k or 320k diskettes and is customer installable. It has 40 tracks per surface and is double sided.

Machines: **IBM PC/XT**

Price: **P O A**

Supplier: **IBM**

IBM 90mm 720k Diskette Drive

This is a half-high, double-sided 90mm (3 1/2") diskette drive that supports the 90mm (3 1/2") media with 720k storage capacity. The purpose of this option is to provide data transfer between the two formats. This allows more compatibility with other IBM equipment, including the IBM PC Convertible and Personal Systems 2 that uses 90mm (3 1/2") diskettes.

Machines: **IBM XT & compatibles**

Op. Sys.: **PC/MS-DOS 3.2**

Price: **P O A**

Supplier: **IBM**

IBM PC AT Double-sided Diskette Drive

This is a half-height, 5 1/4" (133.4mm), double-sided drive with a 320/360k storage capacity. Space and power for one drive has been provided in the system unit. This drive is controlled by the disk adapter standard in the system unit.

Machines: **IBM AT & compatibles**

Price: **P O A**

Supplier: **IBM**

IBM PC AT External 90mm Disk Drive

The IBM PC 3 1/2" external diskette drive stores 720k of data and attaches to all models of the IBM PC, XT and AT. It adds the ability to interchange data between IBM PCs with 5 1/4" diskette drives, and IBM PCs and PSs with 3 1/2" diskette drives.

Machines: **IBM PC/XT/AT & compats**

Op. Sys.: **PC/MS-DOS 3.2**

Price: **P O A**

Supplier: **IBM**

IBM PC AT High Capacity Diskette Drive

This is a half-height, 5 1/4" (133.4mm) double-sided drive with 1.2Mb storage capacity. Each side has 80 tracks with 15 sectors per track. Space and power have been provided in the system unit for up to two drives with one controlled by the standard disk adaptor in the system unit. This diskette drive is capable of reading diskettes in 160/180k, 320/360k and 1.2Mb formats.

Machines: **IBM PC/AT**

Price: **P O A**

Supplier: **IBM**

IBM PC External 90mm Disk Drive

The IBM Personal Computer 90mm (3 1/2") external diskette drive enhances the IBM Personal Computer product line by making available the increased capacity of the 3 1/2" diskette media (720k). The diskette drive not only increases the data capacity but adds the ability to interchange data between IBM Personal Computers with 5 1/4" disk drives, and IBM Personal Computers with 3 1/2" diskette drives.

Machines: **IBM PC/XT**

Op. Sys.: **PC/MS-DOS 3.2**

Price: **P O A**

Supplier: **IBM**

IBM Slimline Diskette Drive

The IBM Slimline Diskette Drive is designed as an additional (second) drive for the IBM Portable PC System Unit. It is double-sided with 40 tracks per side and is fully self-contained. It runs on only the Portable PC.

Machines: **IBM Portable PC**

Op. Sys.: **PC/MS-DOS 2.1 or higher**

Price: **P O A**

Supplier: **IBM**

Mitsubishi 360k Half Height Floppy

High quality floppy storage devices, compatible with IBM, Compaq, Epson, Olivetti, Profound and other IBM compatibles.

Machines: **IBM PC/XT/AT & compatibles**

Other Req.: **Floppy disk controller**

Price: **\$260.00 including tax**

Supplier: **Eastern Micro Electronics**

The Japanese made storage a fine art.

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Our disk drives continue the tradition.



At Fujitsu the Japanese tradition of attention to fine detail has enabled us to produce disk drives with astounding performance and reliability.

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Phone now for the name and location of your nearest supplier. Fujitsu Australia Limited
Sydney (02) 959 6544, Melbourne (03) 529 7633.

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NEC APC-H4200, NEC APC-H4210 Kits

The NEC disk drive expansion kits were developed for the APC-IV to increase its storage capacity and flexibility. The 1.2Mb unit is capable of reading data in 1.2Mb, 720k or 360k format and writes in either 1.2Mb or 720k format.

Machines: **NEC APC-IV**

Op. Sys.: **PC/MS-DOS, Xenix, Pick, Theos**

Price: **\$435.00 and \$395.00 ex tax**

Supplier: **NEC Information Systems**

National Floppy Drives

360k formatted, double sided.

Machines: **IBM PC & compatibles**

Price: **\$180.00**

Supplier: **Super-PC**

Sony Magnetic Media

Sony Magnetic Media deals with the sales and marketing of 3 1/2 inch and 5 1/4 inch floppy disks. The product range including 3 1/2" diskettes from 500k to 1Mb formatted capacity and 5 1/4" diskettes from 250k to 1.6Mb formatted capacity.

Price:

Supplier: **Sony (Australia) Pty Ltd**

Verbatim High Density Diskette Drives

Range of diskette drives including 3.3Mb diskette drive, 6.6Mb diskette drive, 12Mb

diskette drive and disks.

Price: **\$1,000.00 - \$5,000.00**

Supplier: **Verbatim Australia Pty Ltd**

Xyber XL800

The XYBER XL800 is a double sided disk drive for the Macintosh. It is completely compatible with single (400K) and double (800K) sided disks as well as HFS. The XL800 improves productivity by minimising disk swaps and increasing fonts, desk accessories, applications and data at better than reasonable prices.

Machines: **Apple Macintosh**

Op. Sys.: **MFS HFS**

Memory: **512k**

Price: **\$490.00 to \$550.00**

Supplier: **Xyber Pty Ltd**

date stamping files. MS-DOS version also

HARD DISK DRIVE

20Mb Hard Disk Drive

High quality 20Mb hard disk using stepper motor technology. It is suitable for IBM and IBM compatible equipment.

Machines: **IBM PC/XT/AT & compats**

Op. Sys.: **PC/MS-DOS, CP/M 86, Xenix**

Memory: **64k**

Other Req.: **A compatible controller is required.**

Price: **\$1250.00 inc tax, inc controller**

Supplier: **Eastern Micro Electronics**

3720 Eight Inch Module Drive(EMD)

Family of high performance 8 inch disk drives for multi-user, multi-tasking systems. Available in models that provide 368, 500 or 736Mb of storage. High performance is achieved by combining average seek time of 16ms with 19.35MHz transfer rate. Drives are rated at 30,000hrs MBTF with 3 year HDA warranty.

Machines: **Super microcomputers**

Price: **P O A**

Supplier: **Control Data Australia**

8491 Mass Storage Subsystem

The Unisys 8491 Subsystem offers expansion capabilities from 109Mb to 1.7Gb on Unisys LAN file servers to provide high speed shared mass storage facilities. The data transfer rate is 7.5Mb/sec. and average disk speed is 28msec.

Machines: **Unisys PC/microIT and PC/IT**

Op. Sys.: **Unisys Usernet LAN**

Memory: **640k**

Storage: **20Mb**

Other Req.: **Requires 80286 processor**

Price: **P O A**

Supplier: **Unisys**

9710 Removable Storage Drive(RSD)

The 9710 Removable Storage Drive stores 80Mb in half the space of a 14" drive. It is an ideal companion for the Control Data FSD Winchester drive as the two half-rack drives mount side by side in a standard 19" rack. The industry standard SMD interface makes the RSD easy to integrate into most systems.

Machines: **Most super micro systems**

Price: **P O A**

Supplier: **Control Data Australia**

9715 Fixed Storage Drive(FSD)

The 9715 Fixed Storage Drives provide 315, 344 or 515Mb of high performance storage in a half rack configuration that takes up half the space of a 14" drive. The FSD-300 is a plug compatible replacement for the CDC 9766 SMD drive in one-twelfth the size. All FSD models are rated at 30,000 hours MTBF with 3 year HDA warranty.

Machines: **Superminis**

Price: **P O A**

Supplier: **Control Data Australia**

977X Extended Module Drive(XMD)

The XMD family of drives provide up to 1360Mb of fast storage in a sealed module unit that fits a standard 19" rack. The 16ms average access time and 24MHz transfer rate, coupled with the 1.36Gb capacity make the XMD the largest and fastest disk drive in the OEM market. Drives are rated at 30,000hrs MBTF and 3 year HDA warranty is offered.

Machines: **Superminis**

Price: **P O A**

Supplier: **Control Data Australia**

Apple Hard Disks: 20SC, 40SC, 80SC

External SCSI based hard disks with capacities of 20Mb, 40Mb and 80Mb.

Machines: **Macintosh and Apple IIe, IIGS**

Price: **20SC-\$2611.00; 40SC-\$4013.00;**

80SC-\$6522.00

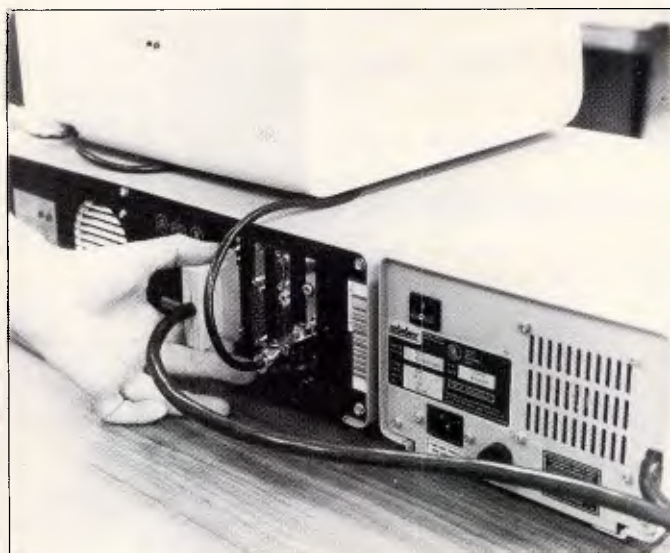
Supplier: **Apple Computer Australia Pty Limited**

Applix Overdrive

ProDOS compatible 800k 3.5" disk drive. Allows you to boot run ProDOS, Apple Pascal 1.3", DOS 3.3 and CP/M. Supplied with controller card which can support two overdrives. Full 12 months warranty. fast, compact and Australian design and manufacture. The controller card has an optional battery-backed real time clock on board for time and

What is the easiest way to back-up and transfer data between

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N.C.R., ■■■ Sperry PC, ■■■ Ericsson,
Compaq PC, ■■■ Kaypro,
etc, etc, etc*?



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New South Wales (02) 736 2888 Queensland (07) 875 1444 South Australia (08) 344 9000
Victoria (03) 879 2322 Western Australia (09) 481 1500

available.

Machines: **Apple II+, IIe, enhanced IIe**
Op. Sys.: **PRODOS, CP/M, PC/MS-DOS 3.3**

Other Req.: **Starcard/applicard for CP/M support**

Price: **\$495.00 including tax; CP/M and/or DOS support \$39.95 each**

Supplier: **Applix Pty Ltd**

Bernoulli Box 10 + 10

Dual 10Mb removable cartridge drives. Fast (35 ms) on-line storage, offering 4 - 6 minute backup and unlimited expandability via inexpensive cartridges. Immune to head crash through vibration or dust contamination.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, XENIX (May 1987)**

Price: **P O A**

Supplier: **Sourceware Pty Limited**

Bernoulli Box 20 + 20

Dual 20Mb removable cartridge drives. Fast (35 ms) on-line storage, offering 4 - 6 minute backup and unlimited expandability via inexpensive cartridges. Backup on the Bernoulli box takes 4 - 6 minutes, creating a working copy. Data can be removed and locked up for total security. Ideal storage system for networks. Immune to head crash through vibration or dust contamination.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, XENIX (May 1987)**

Price: **P O A**

Supplier: **Sourceware Pty Limited**

Bernoulli Box Plus

Shock mounted 80Mb winchester drive with dual 20Mb removable cartridge disks. Ideal storage system for networks. Users can bring additional data on-line instantly by plugging in a cartridge. Archiving is implicit and sensitive data can be removed from the system and locked up.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, XENIX (May 1987)**

Price: **P O A**

Supplier: **Sourceware Pty Limited**

Cordata hard disks

A 20Mb drive comes with a hard disk controller ready to be installed in an IBM/AT for \$3616.00. A 40Mb drive without controller is available for \$3392.00.

Machines: **IBM PC/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$3616.00 - \$5648.00 including tax**
Supplier: **Infocorp Pty Limited**

Dysan Filecard (for PCs)

A complete PC hard disk upgrade system, mounted on an easy-to-install, plug-in controller card.

Price: **P O A**

Supplier: **Xidex Pty Ltd**

Dysan Portafile (For PCs)

A lightweight, truly portable hard disk system with 20Mb of storage. Its compact size allows you to lock up important data in a safe place.

Price: **P O A**

Supplier: **Xidex Pty Ltd**

FileCard 20/30

The FileCard is a self-contained 20Mb or 30Mb hard disk mounted with a Western Digital controller all on a single plug-in card. As a bonus, Vaporware have included the X-TREE file management program as well as SpeedRead, a software utility which boosts average access time performance to 20ms.

Machines: **IBM PC/XT & compatibles**

Op. Sys.: **DOS 2.0 or higher**

Other Req.: **BIOS ROM dated 10/27/82 or later**

Price: **FileCard 20: \$1250.00; FileCard 30: \$1499.00**

Supplier: **Vaporware**

Hewlett Packard 9153

This 20Mb hard disk drive features initialize protection which write protects the hard disk at the flick of a switch. It also has advanced disk controller design using VLSI design to adjust the data rate to suit the application.

Machines: **HP150, HP9000, Vectra**

Price: **\$5130.00 excluding tax, \$5817.00 including tax**

Supplier: **Hewlett Packard Australia Limited**

HyperDrive 2000

HyperDrive 2000 provides the Apple Macintosh with four major functions. It provides a 20Mb internally-mounted hard disk drive, an additional MC68000 microprocessor running at 12MHz, and additional 1.5Mb of RAM, plus a MC68881 Maths Coprocessor. The HyperDrive 2000

is suited to serious computer applications such as CAD/CAM, desktop Publishing and scientific and engineering work.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$5642.00 including tax**

Supplier: **Symbiotic Computer Systems**

HyperDrive 20Mb

HyperDrive 20 is an internal hard disk drive for the Apple Macintosh. It is internally mounted, attaches directly to the microprocessor, is very fast and does not require any additional desk space. The portability of your Mac is also maintained. HyperDrive is supplied with software: a Security program, Hard Disk Manager, an Imagewriter and LaserWriter printer spooler and comprehensive Backup utility. It may also be used as a file server.

Machines: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$3890.00 including tax**

Supplier: **Symbiotic Computer Systems**

IBM 10Mb Fixed Disk Drive

Storage capacity of the Expansion Unit Model I may be increased to a maximum of 20Mb with the addition of a second 10Mb fixed disk drive. This 5.25 inch fixed disk drive has the same physical dimensions as the diskette drive and is used in both the Expansion Unit and the Personal Computer XT. When a second fixed disk drive is installed it utilizes the same Fixed Disk Adaptor as the first fixed disk drive. It is customer installable.

Machines: **IBM PC/XT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Price: **P O A**

Supplier: **IBM**

IBM 20Mb Fixed Disk Drive

One 20Mb fixed disk drive feature may be installed in IBM PC/XT Models 468, 478 and 489. No more than one fixed disk drive can be installed in a system unit. Space and power are provided in the system unit for the drive(s). The prerequisite is the new 20Mb fixed disk drive adaptor. A dedicated landing zone for the read/write heads is available to protect the file and its contents during shipping, movement, or storage.

Machines: **IBM PC/XT & compatibles**

Other Req.: **20Mb Fixed drive adaptor**

Price: **P O A**

Supplier: **IBM**

**SOMEONE HAS
TO BE BETTER THAN
EVERYONE ELSE.**

**THAT'S WHY
VERBATIM DATALIFE
IS AUSTRALIA'S
NUMBER 1 SELLING
FLOPPY DISK.**



Verbatim
— A Kodak Company —

WORD PERFECT·FOR LIFE

**IBM PC AT 20Mb
Fixed Disk Drive**

The IBM Personal Computer AT 20Mb fixed disk drive provides the first or second fixed disk drive installed in an IBM PC-AT, increasing the fixed disk capacity of the IBM AT to 40Mb. Space and power have been provided internally in the system unit for this purpose. This drive is controlled by the fixed disk and diskette drive adaptor which is standard in both models of the IBM Personal Computer AT system unit. A dedicated landing zone for the read/write heads is available to protect the file and its contents during shipping, movement, or storage.

Machines: **IBM PC/AT**
Price: **P O A**
Supplier: **IBM**

**La Pine Titan LT 200
Disk Drive**

The LT 200 drive is the second generation of 20Mb 3 1/2" drives. It has 65ms access time, automatic refracting and locking heads for 60G's shock, closed loop head positioner for greater accuracy, and tight specifications enabling RLL compatibility. This last feature allows 33Mb of formatted capacity to be obtained. The drive comes with a 2 year warranty and is compatible with any ST506 interface.

Machines: **IBM PC/XT/AT & compats**
Op. Sys.: **All**
Price: **P O A**
Supplier: **Micro General Pty Limited**

**Macintosh Internal
Hard Disks:20,40,80SC**

Internal hard disks for Macintosh II with capacities of 20Mb, 40Mb and 80Mb.

Machines: **Macintosh II**
Price: **20SC-\$2006.00; 40SC-\$3210.00; 80SC-\$5413.00**
Supplier: **Apple Computer Australia Pty Limited**

**Maxtor High Capacity
Hard Disk Drive**

85Mb to 800Mb models are available.

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **Any**
Price: **\$2200.00 to \$18,000.00**
Supplier: **CVA Computer & Peripheral Sales**

**Microscience 20MB
HH-725**

20Mb hard disk drive suitable for PC compatible computers. It is reliable and rugged with low power requirements.

Machines: **All with ST-506 Controller**
Price: **P O A**
Supplier: **Multitech Computers Pty Ltd**

**Microscience 20Mb
HH-725**

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS, Xenix**
Price: **P O A**
Supplier: **Digital Laboratory**

**Miniscribe Winchester
Hard Disks**

Winchester drive: rotational mass storage device to 300Mb.

Machines: **IBM XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS, Pick**
Price: **P O A**
Supplier: **Daneva Australia**

**Multisoft Fast Drive
20/40**

Hard disk interface, power supply and cabinet which will accept 20Mb or 40Mb SCSI 3 1/2" hard disk drive. Plugs into Amiga parallel port. Drive features printer port and SCSI output for connection of up to 7 additional Fast Drive 20/40's. Software allows mixing of different size disk drives.

Machines: **Commodore Amiga**
Op. Sys.: **Amiga Dos**
Memory: **512k**
Price: **P O A**
Supplier: **Multisoft Australia**

**NEC APC H4220
40MB Hard Disk Ex-
pansion**

NEC provides a 40Mb hard disk expansion kit which gives the APC-IV additional storage capacity. The APC-IV can take up to two of these drivers, giving it power and flexibility.

Machines: **NEC APC-IV**
Op. Sys.: **PC/MS-DOS, Xenix, Pick, Theos**
Price: **\$2355.00 ex tax**
Supplier: **NEC Information Systems**

NEC Hard Disk Drives

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0/3.0**

Other Req.: **IBM compatible controller**

Price: **P O A**

Supplier: **Advance Peripherals Pty Ltd**

**NPH Apple Slimline
Disk Drive**

An external hard disk with electronic head for the Apple II series of computers.

Machines: **Apple II series**

Memory: **160k**

Price: **\$195.00**

Supplier: **Computer & Electronic Services**

**PTI 338 Hard Disk
Drive**

This is a high capacity 3 1/2" drive, offering a full 33Mb. It has a fast (40ms) access time and very low power consumption (6.5 Watts). These features enable it to be used in specialised areas. Plated media, closed loop positioning, automatic refracting and locking heads on power off make this drive reliable.

Machines: **IBM XT/AT & compatibles**
Op. Sys.: **All**
Price: **P O A**
Supplier: **Micro General Pty Limited**

**Plus Development
Hardcard**

The Plus Hardcard provides extra disk capacity for PCs and ATs. The Hardcard consists of an internal drive/controller unit that plugs into the IBM Bus Structure. A main feature is the fact that it only uses a single slot in the PC. It is available in both 20Mb and 40Mb versions.

Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$1914.00**
Supplier: **Tech Pacific Pty Ltd**

**Seagate 20Mb Hard
disk**

Approximately 75ms access time, 20Mb storage capability (formatted).

Machines: **IBM PC & compatibles**
Op. Sys.: **PC/MS-DOS, CP/M-86**
Price: **\$850.00 including data controller**
Supplier: **Super-PC**

Seagate ST225,20Mb Hard Disk & Control.

A 20Mb hard disk and controller.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$890.00**
Supplier: **Micron Computers Australia**

Seagate ST238

A 30Mb hard disk and controller.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$1050.00**
Supplier: **Micron Computers Australia**

Sharedata

Sharedata is a self-contained 20Mb or 80Mb hard disk with in-built hardware controller and software. Up to 4 PCs or ATs can share the Sharedata. Interface boards and cables for each PC enabling the PC to access the disk at speeds equal to local hard disk access are included. Sharedata provides the benefits of a Local Area Network without the cost, complication or degraded performance of a LAN. Sharedata has a full security and file/record locking. An integral cartridge tape backup is optional.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **P O A**
Supplier: **Interface Technology of Australia**

Tandon TM262 Disk Drive

The Tandon TM262 drive is a well established 20Mb 3 1/2" disk drive. It's head mount mechanism has a shock rating of 40Gb obviating the need for retractable & locking heads. It uses chromium dioxide plated media which has fewer surface defects allowing faster and more accurate write/verify. It is highly reliable with accurate seeking even at extremes of tempera-

ture and is compatible with any ST506 interface.

Machines: **IBM PC/XT/AT & compatibles**
Price: **P O A**
Supplier: **Micro General Pty Limited**

Unisys B25-M4

20Mb disk drive with floppy (1Mb).
Machines: **Burroughs microcomputers**
Op. Sys.: **BTOS**
Price: **P O A**
Supplier: **Unisys**

Unisys B25-MC6, B25-MX6

These 67.5Mb new disks to the Unisys line are the first to be released with full error correcting facility, thus reducing the incidence of data corruption and improving performance.

Machines: **Burroughs microcomputer**
Op. Sys.: **BTOS**
Other Req.: **The MX6 Expansion module must be to the right of an MC6**
Price: **P O A**
Supplier: **Unisys**

Unisys B25-MU5, B25-MX5

40Mb disk drive.
Machines: **Burroughs microcomputers**
Op. Sys.: **BTOS**
Price: **P O A**
Supplier: **Unisys**

Wren Half Height Disk Drives

The Wren Half Height Disk Drives provide 51Mb or 101Mb of storage in half the space of a full height 5 1/4" disk drive. Their high performance 18ms average access time for the 101Mb Wren and 28ms for the 51Mb unit makes them ideal for portable and desktop computers, networks and high-performance workstations.
Machines: **PC, Micro & Supermicro**
Price: **P O A**

Supplier: **Control Data Australia**

XYBER Xpress 20

The XYBER Xpress 20 is a 20.8Mb SCSI hard disk drive for the Macintosh. It is a high density, whisper quiet, compact, 3 1/2" drive. Intelligent buffered seek, full track buffering, sector skewing and caching and a transparent error detection and correction system (32-bit Ecc) make its operation quick, easy and reliable.

Machines: **Apple Macintosh, Macintosh Plus**
Op. Sys.: **HFS**
Memory: **512k**
Other Req.: **SCSI Interface**
Price: **\$1995.00**
Supplier: **Xyber Pty Ltd**

XYBER Xpress 20

The Xyber Xpress 20 is a 20.8Mb SCSI hard disk drive for the Macintosh. It is a new generation, high density whisper quiet, compact 3 1/2" drive. Intelligent buffered seek full track buffering, sector skewing & caching and a transparent error detection and correction system (32-bit ECC) make its operation quick, easy and reliable.

Machines: **Apple Macintosh and Macintosh Plus**
Op. Sys.: **Mac H.F.S.**
Memory: **512k**
Other Req.: **SCSI Interface**
Price: **\$1995.00**
Supplier: **Xyber Pty Ltd**

Xyber XL800

The Xyber XL800 is a double sided disk drive for the Macintosh. It is completely compatible with single (400k) and double (800k) sided disks as well as HFS. The XL800 improves fonts, desk accessories, applications and data at a reasonable price.

Machines: **Apple Macintosh**
Op. Sys.: **Mac MFS and HFS**
Memory: **512k**
Price: **\$490.00 - \$550.00**
Supplier: **Xyber Pty Ltd**

TAPE DRIVES

ADIC TO440 Tape Streamer(ADIC)

40Mb 1/4" tape drive. Can be used as hard

disk.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$1600.00 to \$3000.00**
Supplier: **CVA Computer & Peripheral Sales**

Apple Tape Backup 40SC

External SCSI based tape backup unit

BUCKLE UP FOR

What BMW has done for the automotive industry, Mirror Technologies has done for the hard drive industry. We don't simply crank out drives to meet current demands. We carefully engineer them to exceed yours.

Our products are extremely quick—taking you from 0 to 60 pages in a heartbeat. They handle like a dream as they wind through deskloads of information. And their reliability is unmatched. Built to go full throttle day after day. So you can overtake the pack. Instead of just running with them. So don't settle for a hard drive riddled with compromise. But rather, choose a drive built by a company that looks on compromise as a 4-letter word.

WE'VE GOT A GREAT TRACK RECORD.

Before you buy a drive from a company, you should take a look at their history. Ours is quite impressive.

We were the first to introduce an 800k drive for the Macintosh. First with the 20 meg tape backup. And first with the 85 meg, 172 meg and 340 meg hard drives.

Our products are selling to companies like Honeywell, AT&T, 3M and Apple. Yet we've also pleased some companies that you probably haven't heard of. Like Don's Dog Service, Anderson's Nursery and Himalayan Expeditions. Who knows, maybe now that they have the right tools, these companies, too, will become household words.

MAGNET 20X, 30X AND INTRODUCING THE 40X.

Here are all the choices for storage you need (20, 30 and 40Mb). The 20X, perfect for everyday use.

The 30X, 50% more storage for the price of our competitor's 20 meg drives.

And introducing the 40X, offers all the storage you need for power computing. All cooled by our extra-quiet fan. They sit beside

your Mac, so the system won't heat up. Daisy chain up to 7 units. They come with backup utilities and optional MacServe networking software (a \$250.00 value).

Preformatted, so just plug them in and run.



MAGNUM TAPE 20. INTRODUCING THE MAGNUM TAPE 40.



For the serious user who can't afford to lose data. These "safety nets" keep a portable, permanent record of your data. So reliable, the Library of Congress uses us to backup their most critical data. Free software update policy so your tape drive can be updated as we update ours. We're the only one to deliver file by file, volume and

incremental backup. With incremental, you backup *only* the data you've changed since your last backup. These totally secure systems run silent and cool. When we designed the new Tape 40, we worked side by side with Apple and 3M so it would be compatible with any products released by Apple in the future.

THE MAGNUM 800.

The first 800k drive introduced for the Mac. Thousands of satisfied customers worldwide. Offers great speed and value. It's quiet and comes with a one-year warranty. Push button eject mechanism. Compatible with the Mac 128, 512 and Plus. Reads and writes 400K, 800K diskettes.



FAST ACCESS

THE MAGNET 40/40.

A very fast 40 Meg hard with a dependable 40 Meg tape backup as a "safety net." Sits under your Mac so it doesn't take up extra space. The premier drive/tape backup combination in the market. Backup file by file, volume or incrementally. With incremental, you can usually backup your daily data in under 4 minutes. Comes standard with MacServe (\$250.00 value) to allow you Multiuser, Multitasking. This drive is based on the NEC drive and the 3M Tape 40 — two leaders in their respective industries.



MAGNET 85X, 172X AND INTRODUCING THE MAGNET 340X.

Three times faster than standard hard drives because we use voice coil technology. These combine blistering speed, enormous capacity with tape backup and Multiuser, Multitasking software (includes MacServe, a \$250.00 value). All 3 are combination drives with integrated tape backup. Powerful, compact, quiet alternatives to the AST 4000. The 172 offers twice the capacity for the same price. (Based on the November 1986 suggested retail pricing.)

AST 4000 is a trademark of AST Research Inc. Macintosh is a trademark of Apple Computers Inc.



WHEN YOU WORK IN THE FAST LANE, YOU CAN'T AFFORD TO BREAK DOWN.

To win in today's fast and furious corporate arena, you need a drive that can survive the grueling pace. You need a well built machine.

Well you'll be happy to know that our drives are so well built that we were the first to introduce a full-year warranty. And of course this warranty is still policy today. Plus each unit comes with a Quality Assurance Report detailing every step of production. And finally, before a drive is allowed out the front door, it is tested for 24 continuous hours to insure its durability.

Our "pit crew" is equally dependable. If you ever have a problem, we have trained experts standing by. Just give us a call, toll free. And we'll have you up and running in no time. Flat.

WE'RE REVVING UP FOR THE FUTURE.

The Macs of tomorrow are just around the corner. And with Mirror Technologies, you can hit the ground running when they arrive.

Currently, we're shipping more drives than any other company except Apple. Like the 85X, 172X, the MagNet 40/40 and tape drives, too.

When File Servers hit the streets in January, we were there with big enough hard drives to tie dozens of Macs together. Other drives would blow an engine trying to do that.

And it's no secret that Apple is about to introduce bigger and better machines. We're ready for them, too. Because we're not waiting for the future to come to us. We're going out half way to meet it. That way, we come back with products that'll let you blow the doors off all those who remained standing still.

MIRROR TECHNOLOGIES Inc.

Distributed by

Scarlan Computer Services Pty Ltd

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Drummoyne. N.S.W. 2047



and file backup and restore capabilities.

Machines: **Macintosh**

Price: **\$3010.00**

Supplier: **Apple Computer Australia Pty Limited**

Archive 60Mb Tape Backup

60Mb external tape backup with software and cartridge.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$900.00**

Supplier: **Lysco**

Cordata 60Mb Tape Backup

Machines: **IBM PC/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1 or higher**

Price: **\$3392.00**

Supplier: **Infocorp Pty Limited**

Dysan Tapefile (for PCs)

A 1/4" internal tape backup system providing 60Mb of removable storage. It frees up hard disk space for future information and protects valuable data from power failure and operator error.

Price: **P O A**

Supplier: **Xidex Pty Ltd**

Genoa Gateway Range

The Gateway range of tape backup units comes in 20, 50, 60, 120Mb in a combination of cassette or cartridge. They are capable of backing up at a rate of 5Mb per minute. The full range comes with 'windowed' utility software for ease of use. The range is able to work on any Netbios compatible LAN and will backup all hidden files.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS & networks**

Price: **\$1795.00 - \$5000.00**

Supplier: **Micro Networks**

J.V.C. High Speed Cassette Tape Streamer

The J.V.C. cassette tape streamer is a low cost high reliability PC tape backup device. It uses a digitally certified cassette similar to an audio cassette. Because the tape path on a cassette is much simpler than a cartridge, very high speed extremely

reliable backup is achievable using read after write technology. The unit can backup 50Mb per cassette at 5Mb a minute.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$1890.00**

Supplier: **Interface Technology of Australia**

Keystone 1/2" Streaming Tape Drive

The Keystone 9218X series of magnetic tape transports are formatted reel-to-reel drives that use 0.5 inch tape and provide both start/stop and streaming performance. Drives are available in 1600, 3200 and 6250 BPI GCR modes, supporting buffered and unbuffered operation. Perfec, SCSI and STC interfaces are available.

Machines: **Superminis**

Price: **P O A**

Supplier: **Control Data Australia**

LoDown Tape Streaming Backup(LDN-002)

The LoDown tape streamer provides an extremely efficient means of backing up large amounts of data. Both the 20 and 50Mb models perform backup at up to 4Mb/minute. LoDown units are compatible with any hard disk attached to the Macintosh Plus and come with flexible Tape backup and Restore programmes.

Machines: **Macintosh Plus**

Op. Sys.: **Macintosh**

Other Req.: **Hard disk**

Price: **\$2399.00 (20Mb) - \$3850.00 (50Mb)**

Supplier: **Symbiotic Computer Systems**

Model 6500 Cartridge Tape System

60Mb or 120Mb versions available using DC-600A Cartridge.

Machines: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, Xenix**

Price: **\$2000.00 - \$3000.00**

Supplier: **Datamatic Pty Ltd**

Patriot 1/2" Cartridge Tape Drive

The Patriot streaming Tape Drive uses an IBM 3480 1/2" cartridge to provide 240Mb of disk backup in a convenient 5 1/4" format factor. The 250kps transfer rate allows backup of 240Mb in 17 minutes. The drive includes SCSI controller and 256k

buffer.

Machines: **Any**

Other Req.: **SCSI interface supplied**

Price: **P O A**

Supplier: **Control Data Australia**

Streaming Tape Drives ("Microstreamer")

Cipher Streaming Drives enable rapid transfer of data between the Winchester drive and the tape drive models are available for use with almost every PC including IBM, Compaq, Kaypro, Sperry, Epson, Osbourne, Olivetti, Basic Time, NEC, NCR, Sanyo, Zenith, Cleveland and many others.

Price: **\$750.00 - \$15000.00 excluding tax**

Supplier: **Elmeasco Instruments Pty Ltd**

Super-5 ET-6402 Tape Backup

50Mb streaming tape backup system. Uses tapes with standard audio cassette form factor. A data transfer rate of 112.8 kps means that a 20Mb hard disk can be backed up in three minutes.

Machines: **IBM PC/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **512k**

Price: **\$2000.00**

Supplier: **Multitech Computers Pty Ltd**

Sytos Tape System

A versatile, fast and accurate tape system. It backs up at up to 5Mb/minute, verifying as it writes. It is compatible with any XT/AT system, most hardware expansions and networks. It will work from Advanced menu, Easy Menu or batch file, and has timeclock software to automate backups. It will backup non-DOS operating systems in image mode. File and partition backup are also options. It will also read and write tapes from other tape systems.

Machines: **IBM XT/AT & compatibles**

Op. Sys.: **All**

Memory: **256k**

Storage: **Hard disk any size**

Price: **P O A**

Supplier: **Micro General Pty Limited**

Tape Backup Units

Units range from 40Mb internals using 3 1/2" tape technology to 60Mb external units using industry standard DC600 cartridges.

Machines: **IBM PC/XT/AT & comp**

Op. Sys.: **PC/MS-DOS, CP/M 86, Xenix**

Price: **From \$2370.00**
 Supplier: **Eastern Micro Electronics**

Tape Streamer 110,310,

These internal and external tapes streamers for IBM PC store 10Mb of data. 20Mb models (120 and 320) are available from \$995.00.

Machines: **IBM PC/XT & compatibles**
 Price: **From \$895.00**
 Supplier: **Pacific Data Corporation**

Tape Streamer 125,325

This tape streamer may be mounted internally or externally. The 125 and 325

models are 20Mb streamers, 40Mb models (135 and 345) are available from \$1095.00.

Machines: **IBM AT & compatibles**
 Price: **From \$995.00**
 Supplier: **Pacific Data Corporation**

Usernet Tape Backup Subsystem

Provides fast backup of up to 60Mb for Unisys Local Area Networks. Allows file by file backup to ensure compatibility across networks.

Machines: **Unisys PC/HT, PC/microIT, PC/IT**

Op. Sys.: **PC/MS-DOS and networks**
 Memory: **512k**
 Price: **P O A**
 Supplier: **Unisys**

Wanstak Tape drive

Tape drive has a streaming backup to 500Mb.

Machines: **IBM XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS, Pick**
 Memory: **360k**
 Price: **P O A**
 Supplier: **Daneva Australia**

LoDown Hard Disk with Tape Backup

The LoDown range of combined hard disk

drives with tape streaming backup use the SCSI port for fast data transfer. Cabling and range of software is provided with the units. Units available are 20Mb (disk) with 20Mb (tape), 30Mb(disk)/20Mb(tape)

and 30Mb(disk)/50Mb(tape).

Machines: **Macintosh Plus**
 Op. Sys.: **Macintosh**
 Price: **\$3999.00 - \$5320.00**
 Supplier: **Symbiotic Computer Systems**

CD-ROM Drive (Inbuilt Unit)

Inbuilt CD-ROM drive which plugs into an IBM PC/XT/AT or compatible via a suitable interface card. A CD-ROM disk can store up to 540Mb of read only memory. CDU 5002 fits into a full high floppy disk drive slot.

Machines: **IBM PC/XT/AT & compats**
 Price: **\$1428.00 including tax**
 Supplier: **Sony (Australia) Pty Ltd**

CD-ROM Stand Alone Unit(CDU-100)

Stand alone CD-ROM drive which plugs into an IBM PC/XT/AT or compatible via a suitable interface card. A CD-ROM disk can store up to 540Mb of read only memory.

Machines: **IBM PC/XT/AT & compatibles**
 Price: **\$1797.00 including tax**
 Supplier: **Sony (Australia) Pty Ltd**

Compact Disk Read Only Memory(CD-ROM)

CD-ROM provides random access to

up to 600Mb of data. One disk holds the equivalent of 200,000 pages of text, several thousand images and voice. Unit is available either as a standalone model or in a half-height 5.25 form factor. CD-ROM is ideal for information and software publishing and distribution, education and training, office automation and data base storage applications.

Machines: **IBM PC/XT/AT & compatible**
 Other Req.: **Relavant interface supplied**
 Price: **P O A**
 Supplier: **Control Data Australia**

Hitachi CDR-15025 CD-ROM Drive(CD ROM)

The Hitachi CDR-15025 is an IBM PC/AT compatible CD-ROM driver. It follows the Philips/Sony CD-ROM specification and is compatible with all compact disks manufactured to this specification.

Machines: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Price: **\$2400.00**
 Supplier: **Interface Technology of Australia**

LaserDrive 1200 Optical Disk Drive

The LaserDrive 1200 optical disk drive stores up to 2000Mb on a 12" removable cartridge thus providing low-cost long term storage for archival records and large data bases. Storage life guaranteed for at least 10 years. LaserDrive comes with in-built SCSI controller and fits into a standard 19" rack.

Other Req.: **SCSI interface supplied**
 Price: **P O A**
 Supplier: **Control Data Australia**

LoDown WORM (LDN-400)

The Lodown optical drive is a high capacity Write Once Read Many times drive which connects to the Macintosh via the high speed SCSI port. Data cannot be accidentally or maliciously erased and has a projected life of twice that of magnetic media. Two versions are available, one using 400Mb cartridges the other 800Mb.

Machines: **Macintosh Plus** Op. Sys.: **Macintosh**
 Price: **\$13396.00 - \$18996.00**
 Supplier: **Symbiotic Computer Systems**

Optical Disk Storage & Retrieval Unit (OSDR)

The Optical Disk Storage and Retrieval

Unit, commonly called a 'jukebox', provides 32 gigabytes (32,000Mb) or 40Gb of on-line, random access storage without human intervention. The OSDR has one or two LaserDrive optical disk drives, a 16 or 20 crypt media tower and a micro-

processor controlled mechanism for selecting and transporting cartridges.

Price: P O A

Supplier: Control Data Australia

MISCELLANEOUS

Softstrip

Softstrip is new computer technology which the vendors claim will revolutionise the way you generate, distribute, and access data. The system begins with a 'Softstrip' data strip. A single strip produced on a dot matrix printer can con-

sist of software, data, graphics or sound. The data strip is read by a 'Softstrip' reader. The reader translates and displays the data in seconds, using a unique optical scanning mechanism. The reader is sensitive enough to retrieve your data even if the strip is crumpled, stained, photocopied or is a fax transmission. The code used for

'Softstrip' is ASCII standard and can be read by any other computer, through a 'Softstrip' reader.

Machines: IBM PC, Apple II/Mac, Amstrad, BBC

Price: \$699.00

Supplier:

Verbatim Australia Pty Ltd

More* Drive for Your Mac

800K Double Sided Disk Drive

The XYBER XL800

- * More Capacity ◇ 800K
- * More Versatility ◇ Automatic AND Manual Disk Eject Mechanism
- ◇ Completely Compatible with Mac 512, Enhanced Mac and the Mac Plus
- ◇ Accepts 800K and 400K Disks
- * More Reliability ◇ Brushless DC Motor
- ◇ Soft Head Landing
- ◇ Magnetic REED Switches
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Input Devices

Giving information to a computer was once as simple as feeding a stack of punched cards into a hopper and pressing a button. Now that more people spend more time at the computer other forms of input device make it easier to feed it instructions, such as keyboards, mice, joysticks, barcode readers, digitizers and light pens. Each of these input devices must be ergonomically designed so that it doesn't cause discomfort to the user.

The keyboard is the most widespread form of direct input. Most keyboards are based on the standard QWERTY typewriter keyboard but have been provided with extra keys for numeric data entry, cursor control, interrupting the computer, sending it special instructions and allowing single key entry of commonly used commands. While the basic alphabetic keys remain in the same place on most computers these special keys appear in a variety of positions around the keyboard. Most sup-

pliers have not listed their keyboard as a separate item as keyboards are often not compatible from one machine to another, usually supplied standard with the computer.

For graphics applications a mouse or digitizer performs the function of tracking the movement of the hand. Most mice use a ball to sense movement and while very high resolutions are possible with these mice a digitizer tablet records exactly where the pen or mouse is. They still have limitations as far as resolution is concerned but are not prone to what is known as 'drift'. You can lift your hand off the digitizer tablet and when you put it down again its position is accurately recorded. They are expensive but very useful for graphic design.

Games, especially the 'move and fire' type, are best played with joysticks; the computer's response to the cursor pad is far too slow. They are priced to suit the game market but useful for very lit-

tle else.

There are many other ways to feed information to a computer. Some of the more common devices are listed in the Miscellaneous section of this chapter. Scanners read a photograph or visual image and record it as information for a graphics package. They are not cheap but provide access to unlimited images for use as computer graphics. The format in which they record the data must be matched to the needs of the graphics package. Barcode readers and voice input devices also appear in this section.

There are a variety of other products for collecting data automatically, ranging from a time card processor which clock employees on and off the job to general purpose data acquisition devices. If you are interested in data input from electronic devices that are not listed in this section it may be useful to look in the Interfaces section of the Boards chapter.

DIGITIZERS

2000 Series Digitizers

The 2200 and 2500 digitisers are in 12" x 12", or 12" x 18" sizes. Resolution is from 200 to 1000 lines per inch. Accuracy is up to 0.015 inches and up to 32 output formats are selectable. Transducers include pen stylus, 4 button or 16 button types.

Machines: Any PC

Op. Sys.: Any

Price: \$1300.00 - \$2500.00

Supplier: Datamatic Pty Ltd

Digitiser Tablet with Mouse CT-1150

Digitiser tables used with Autocad and other graphic packages to allow tracing, menu selection and screen cursor pointing. Absolute co-ordinates are digitised with a resolution up to 40 lines per minute.

Machines: Any PC

Price: \$1100.00

Supplier: Novatech Controls (Australia) Pty Ltd

Digiview

High quality video digitiser for use with Amiga for low, medium and high resolution modes. Data can be used by other

programs.

Price: \$459.00

Supplier: Acme Software

H5911A

Digitiser.

Machines: HP Vectra, Touchscreen II

Price: \$970.00 excluding tax; \$1100.00 including tax

Supplier: Hewlett Packard Australia Limited

Kurta

A digitising tablet designed to be useful wherever graphic, design, picture or line drawings are required to be useful to a computer.

Machines: IBM PC/XT/AT & compatibles, Amiga, Apple

Op. Sys.: PC/MS-DOS, AppleDOS,

AmigaDOS

Price: \$520.00 - \$15000.00

Supplier: Minicomp Graphic Peripherals Pty Ltd

Kurta Digitiser

The Kurta digitiser is compact, ergonomic and has a resolution of 200ppi and an accuracy of +/- 0.035". The

proprietary Kurta electrostatic technology means that magnetic media, such as disks that come into contact with the digitiser, surface will not be affected. The Kurta digitiser is available in a number of sizes from A4 to A1.

Machines: IBM, Apple, Amiga, Microbee

Op. Sys.: PC/MS-DOS, CPM, Appledos

Other Req.: Needs RS232 serial port in computer

Price: From \$1635.00 excluding tax

Supplier: Quest International Computers Pty Ltd

Microgrid Series

5 sizes ranging from 17" x 24" to 42" x 60". Extremely high accuracy (0.005") and reliability for advanced CAD users and for such applications as mapping.

Machines: Any

Other Req.: RS232 interface

Price: P O A

Supplier: Sourceware Pty Limited

Numonics Series 2000 Digitizing Tablets

All tablets in the Series 2000 utilize a patented electromagnetic technology unique to Numonics. This exclusive low impedance

technology assures each tablet's immunity from outside interference, aiding reliability and stability. Numonics tablets are available in a number of different sizes, ranging from 6" x 6" to 44" x 60". Each tablet, regardless of size uses identical control electronics and the same operating system, differing only in physical packaging and, in some cases, accuracy. By using uniform and integrated electronics, support and maintenance problems are minimal.

Machines: Most CAD & Graphics systems

Price: \$600.00 - \$9000.00

Supplier: Quentron Digital Systems

Summasketch

Popular tablet for freehand drawing applications with 6" x 9" active area. Compatible with Ventura desktop publishing. Price includes pen stylus, power supply

and cable.

Machines: Any with RS232 interface

Price: \$1146.00 excluding tax

Supplier: Sourceware Pty Limited

Summasketch 1201

12" x 12" active area. Most popular tablet for CAD and other graphics programs such as Mirage. Price includes both 4 button cursor with crosshair sight and pen stylus.

Machines: Any

Other Req.: RS232 interface

Price: \$1678.00 excluding tax

Supplier: Sourceware Pty Limited

Summasketch 1812

18" x 12" active area. This A3 tablet is proving increasingly popular with Auto CAD users as the tablet divides conveniently into larger format drawings for digitising pur-

poses and the larger area offers more options for configuring tablet menus.

Machines: Any

Other Req.: RS232 interface

Price: \$2606.00 excluding tax

Supplier: Sourceware Pty Limited

Unisys Graphics Tablet (Digitiser)

Provides digitised mouse input via a 12 x 12 tablet for popular MS-DOS graphics packages and CAD software.

Machines: Unisys PC/HT, PC/microIT and PC/IT

Op. Sys.: MS-DOS

Memory: 256k

Storage: 360k

Price: \$1500.00

Supplier: Unisys

JOYSTICKS

Atlantis PC - Joystick

The Atlantis PC - Joystick is a durable, high strength games adaptor. It features dual fire buttons, adjustable centering and either spring return or free return modes of operation. It plugs into any standard 15-pin games adaptor on the IBM PC/XT or compatibles.

Machines: IBM PC/XT/AT & compatibles

Other Req.: Requires games adaptor port

Price: \$45.00 including tax

Supplier: Atlantis International Computers

Profound Joystick

Eastern Micro Electronics make and supply the Profound Joystick which is IBM compatible, and has facilities for unidirectional movement and buttons for rapid fire capabilities.

Machines: IBM PC/XT/AT & compatibles

Other Req.: Joystick port or adaptor

Price: From \$55.00

Supplier: Eastern Micro Electronics

Sureshot Joystick

A high reliability long life joystick. Steel shaft, microswitch action, left and right fire buttons, also available with centre fire.

Machines: Any Atari compatible computer

Other Req.: Joystick port

Price: \$39.95 - \$44.95

Supplier: Dolphin Computers Pty Ltd

KEYBOARDS

Apple Extended Keyboard

Extended keyboard for Macintosh SE and II offering 15 function keys, numeric pad, T style cursor layout and 6 cursor function keys. Total of 105 keys.

Machines: Macintosh SE and II

Price: \$440.00

Supplier: Apple Computer Australia Pty Limited

Apple Keyboard

Standard keyboard for Macintosh SE and II offering numeric pad and cursor keys. 81 keys in total.

Machines: Macintosh SE and II

Price: \$240.00

Supplier: Apple Computer Australia Pty Limited

Emtek Multicompatible Keyboard

Standard typewriter layout of keys; 'positive feel' switch type key mechanism; programmable cursor codes for Wordstar, dBase, Multiplan etc.; height adjustable tilts; serial output 128 ASCII code/83 scan codes.

Machines: IBM PC/XT plug compatible; Apple II, II+

Price: \$182.00 including tax

Supplier: Emona Computers Pty Ltd

Unisys Professional Keyboard

Provides the PC user with expanded keyboard layout with a separate cursor pad and special keys. Function keys are placed across the top of the keyboard. For use with data entry, serious wordprocessing and spread sheets.

Machines: Unisys & compatibles

Op. Sys.: PC/MS-DOS, Xenix

Memory: 256k

Storage: 360k

Price: \$375.00

Supplier: Unisys

Atlantis Mouse (RS232 Type)

The Atlantis Mouse is a three button serial mouse that connects to any IBM PC/XT or compatible through the RS232C serial port. The mouse can be used with popular CAD/CAM software, paint programs, etc.
Machines: **IBM PC/XT & compatibles**
Price: **\$199.00 including tax**
Supplier: **Atlantis International Computers**

Genius Serial Mouse

The Genius Mouse is Microsoft compatible and comes with paint and draw software program. It is made locally by the vendor.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Other Req.: **Serial port or adaptor**
Price: **From \$250.00**
Supplier: **Eastern Micro Electronics**

Logimouse C7

Logimouse is programmable, which makes it most universally compatible. Logimouse functions in its own communication format and also emulates the formats of all other available mice. It is fully compatible with all the well known hardware and software. Logimouse offers high (200DPI) resolution and a programmable baud rate up to 9600 bauds. Logimouse is claimed to be the ONLY mouse to run at 9600 bauds with AutoCAD.
Machines: **IBM PC/XT/AT & compatibles**
Price: **\$238.80**
Supplier: **Dataflow Computer Services**
BJE Enterprises
Technical Imports Australia

Microsoft Mouse v 6.0

With the Microsoft Mouse you can select text, activate commands and paint pictures with a simple drag and click of the mouse. Works with many products including Lotus 1-2-3, MultiMate & DisplayWrite 3, Show Partner and Microsoft Paintbrush. Microsoft Mouse supports a wide range of graphics cards and printers. Microsoft Mouse is available in both bus and serial versions (Bus uses one slot, serial version uses 1 serial port).
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Memory: **12k**
Other Req.: **MS-DOS 2.0 or higher.**
Price: **\$375.00 ex tax**
Supplier: **Microsoft Pty Ltd**
Arcom Pacific

Mouse GM3, GM4

Mouse with 3 user assignable buttons, an auto repeat key and silicon rubber ball. Applications include dBase III, Lotus 1-2-3, Multiplan, Visicalc, Wordstar, Autocad, PC Paint etc.
Machines: **IBM PC/XT/AT & compatible**
Other Req.: **Interface GM3 RS232C port; GM4 plug in card for IBM Bus**
Price: **\$105.00 (GM3)**
Supplier: **Novatech Controls (Australia) Pty Ltd**

Mouse Systems Mouse

The Mouse Systems mouse is an optical mouse that runs on an etched grid in a mouse pad and requires no calibration. It uses analog hysteresis for noise-free operation with no loss of resolution. The tracking algorithm never permits the mouse to 'fly away' and tracking error is minimal up to

the max speed of 62.5cm/sec. It has no moving parts to become clogged or damaged.

Machines: **IBM PC/XT/AT & compatibles; 386**

Op. Sys.: **PC/MS-DOS**

Other Req.: **RS232 serial port**

Price: **\$380.00 excluding tax**

Supplier: **Quest International Computers Pty Ltd**

Summamouse

Optical mouse with Microsoft emulation software. High accuracy and high reliability make this mouse the choice with CAD operators and power users alike. The only moving parts on this optical mouse are the three key switches which are rated at better than ten million cycles.
Machines: **Any**
Other Req.: **RS232 interface**
Price: **\$2606.00 excluding tax**
Supplier: **Sourceware Pty Limited**

Torrington Mouse with KeyFree

Manager Mouse has a smooth quick-sliding action. It does not require a separate power supply or a special tablet. Manager Mouse uses independent suspension and an on-board microprocessor. The KeyFree software provided with Manager Mouse allows keyboard commands to be replaced with mouse movements. The Telepaint Software is designed to make overhead transparencies for presentations.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS 2.0 and higher**
Price: **\$340.00 ex tax**
Supplier: **Arcom Pacific**

Barcode Reader

This barcode is made locally by Eastern Micro Electronics for use with IBM and compatible personal computers.
Machines: **IBM PC/XT/AT & compatibles**
Price: **From \$750.00**
Supplier: **Eastern Micro Electronics**

CPI Little Dictator

Voice input board for PC. Add your own access file to its 500 word programmable

vocabulary, the PC responds to your voice. 98% accuracy, 0.2 second response time.
Machines: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$850.00**
Supplier: **Software Corporation of Australia**

CX-3000/5000

The CX3000 is a digitiser and drafting computer that enables the implementation of a variety of functions. Operation has been made easy by completely eliminating the

need to use computer languages. The command and digital keys have been utilised on the controller which is mounted on the vertical rail. This display provides indication of X and Y direction movement and is capable of on-line digitising functions. The CX3000 can add co-ordinate reading functions and data generation functions for civil engineering, construction and design as well as machinery and electronics fields.

Machines: **Any**

Op. Sys.: **CX3000 mainframe/controller section**

Price: **\$5000.00 - \$6000.00**

Supplier: **Aarque Systems Pty Ltd**

Datataker

Electronic data acquisition and control peripheral. For use with all computers. Accepts inputs from all scientific and industrial sensors. Features 24k memory, auto linearisation of sensors, alarm and control functions. Stand alone capability programmed by simple key stroke commands. Collected information can be displayed or stored for later retrieval by computer.

Machines: Any

Op. Sys.: Any

Other Req.: RS232, RS422, RS423 port

Price: \$1975.00 - \$2795.00

Supplier: Data Electronics (Australia)

Pty Ltd

IDI/MAP

Automated fiche retrieval units.

Price: P O A

Supplier: Xidex Pty Ltd

Lodown Image Scanner(LDN-900)

LoDown's image scanner is a high resolution table top optical scanner that interfaces with the Mac via the high speed SCSI port. At resolution of 300dpi with 32 grey scales, a full page scan can be completed in 12 seconds (150dpi in 6 secs). Graphics software is provided to adjust brightness and contrast and to edit the picture.

Machines: Macintosh

Op. Sys.: Macintosh

Price: \$3600.00

Supplier: Symbiotic Computer Systems

MacNifty Audio Digitizer

This digitiser may be used alone or in conjunction with Studio Session. When used alone it is able to digitise and analyse any sound with respect to frequency, waveform and spectrum. The sound, recorded in memory, may be manipulated with a variety of filters, ramps and waveform-modification tools provided in the software.

Machines: Macintosh

Op. Sys.: Macintosh

Price: \$290.00 including tax

Supplier: Symbiotic Computer Systems

NEC Voice Recognition Unit SAR-10

Machines: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Price: \$1300.00 excluding tax

Supplier: NEC Information Systems

NITA Audio Board

Nita is a telephone automation product for the IBM PC/AT utilizing digitised audio technology. Nita can record and reply audio messages including voice/music or other hifidelity sound. It can be used in voice response message delivery, voice storing and forwarding. It is shipped with application programmes. A development kit is available.

Machines: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 256k

Storage: 10Mb

Price: \$3500.00

Supplier: Discware Computers & Software

Pronounce

Voice control system for IBM PC. Advanced easy to use speech recognition system. Lets you develop speech driven macro commands.

Machines: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 256k

Storage: 1 X 360k

Price: \$1290.00

Supplier: Discware Computers & Software

Ricoh IS30 Image Scanner

The Ricoh IS30 Imagescanner is complete with interface for PC/XT/AT and a powerful graphics editor. This allows scanned images to be 'fat-bit' edited if necessary before inclusion in Ventura/Pagemaker etc. prior to printing on a laser printer. A key feature is its virtual memory allowing the scanning and keeping in memory of an entire A4 page.

Machines: IBM PC/XT/AT & compatibles

Price: \$5200.00

Supplier: Mitsui Computer Limited

Softstrip

Softstrip is new computer technology which the vendors claim will revolutionise the way you generate, distribute, and access data. The system begins with a 'Softstrip' data strip. A single strip produced on a dot matrix printer can consist of software, data, graphics or sound. The data

strip is read by a 'Softstrip' reader. The reader translates and displays the data in seconds, using a unique optical scanning mechanism. The reader is sensitive enough to retrieve your data even if the strip is crumpled, stained, photocopied or is a fax transmission. The code used for 'Softstrip' is ASCII standard and can be read by any other computer, through a 'Softstrip' reader.

Machines: IBM PC, Apple II/Mac,

Amstrad, BBC

Price: \$699.00

Supplier: Verbatim Australia Pty Ltd

TI-Speech System

All hardware required to support TI-Speech tool kit, vocabulary manager, transparent keyboard, text to speech. Can be used to record and playback operator's voice, to recognise and act upon key phrases, to convert text to speech, using either internal or external speakers, microphone and/or headset.

Machines: IBM PC/XT/AT & compatibles, TIPC, TIBB

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 256k

Storage: Dual diskettes

Other Req.: Require speech recognition software.

Price: P O A

Supplier: Texas Instruments Australia Limited

The Datamod

Datamod is a stand alone time recording system capable of employing an IBM XT or AT emulation allowing programming and system configuring via the PC. It also allows data contained by the Datamod to be transferred to the PC disk system for further processing. For example payroll preparation or personnel records.

Machines: IBM XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 64k

Price: P O A

Supplier: Flexitime Pty Ltd

Thunderscan

This digitising scanner is able to produce a grey-scaled picture with up to 288dpi resolution. The captured image may be saved as a MacPaint picture for further 72dpi manipulation, or as a grey-map for further Grey Paint manipulation, for example, prior to incorporation in a desktop publication.

Machines: Macintosh

Op. Sys.: Macintosh

Price: P O A

Supplier: Symbiotic Computer Systems

Miscellaneous Hardware

There are readers who turn straight to the miscellaneous section of a directory like this to see what weird and wonderful products have not been able to find a place elsewhere. Should you be one of them, the Other Peripherals section of this chapter is for you. It contains a few expansion chassis and various interface devices. There is a peripheral each for the Macintosh and the Amiga to allow them to run MS-DOS applications. Some devices which nearly made it here but have gone elsewhere are voice input devices (Other Input Devices section) and a mass storage device which stores coded information on paper (Other Input and Mass Storage). The bulk of this chapter is made up of power supplies and equipment for printing computer graphics on film or video.

Power supplies are often taken for granted but in a device like a computer they are critical. All of the information in memory is electric and extremely vulnerable to local fluctuations in electric current. Large power surges may cause problems with information stored on magnetic disk or with the hardware itself. The power supply that comes standard with your computer is fairly

reliable but critical applications, or a computer in a crucial role in a network, may require the extra protection offered by any of the products in this section.

High quality recording of computer graphics on film or video has become more common as computer graphics find their way into more advertising and other media. Computer graphics are considerably cheaper now and users are finding more applications for them. Most of the products in the Output Film & Video section are high resolution devices that output to transparent film for presentation purposes or as high quality artwork to go to a printer. Many of them are priced out of the range of business users and will be of more interest to the professional graphics industry.



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Atlantis 150 Watt Power Supply

The Atlantis 150W Power Supply is a switching power supply suitable for installation in IBM PC/XT or compatible machines. Working off 180V - 270V AC supplies, the 150W power supply is capable of delivering the following voltages: +5V @ 15A, +12V @ 5.6A, -5V @ 0.5A, -12V @ 0.5A. The supply fits a standard PC/XT case and features an integral cooling fan and side mounted on/off toggle switch.

Supplier: Atlantis International Computers

Atlantis 200 Watt Power Supply

The Atlantis 200W power supply is a switching power supply designed to fit into the IBM AT or close compatibles. The power supply will deliver a range of voltages: +5V @ 20A, +12V @ 7A, -5V @ 1A and -12V @ @@@@ 1A. The power supply fits into a standard AT case and includes an integral cooling fan and side mounted on/off switch.

Supplier: Atlantis International Computers

Computer Saver Power Filter

The Computer Saver sits between the mains and your equipment and eliminates corruption of data due to voltage spikes and brown outs. This product is Australian made and supported.

Supplier: Symbiotic Computer Systems

DPS 75 and DPS 150 Portable Power Supply

DPS power supplies enable any computer to be used without mains power. They can operate from a car battery or any other 12 or 24 volt DC source to generate 320 volts DC. The units come in rugged die cast cases with leads attached ready to plug into the computer which must have a transformerless electronic off line switching power supply. For equipment that has a transformer power supply, a range of APS 240V full sine wave inverters is scheduled for release in July 1987. The price of the units ranges between \$190.00 - \$300.00

depending on output power and options.
Supplier: Digital Audio Processing Pty Ltd

ESP Intelligent Computer Battery Backup

The Elgar range of intelligent battery backup systems include Failsafe and Failsafe LAN to protect individual computers and LAN systems from damage and data loss. When power failures exceed the flexibility of the backup power system, Failsafe secures the system by executing shutdown routines to close the application running, system files, park hard disks and secure external processes. Upon power restoration the application is automatically restarted, ensuring productivity.

Supplier: Taxale Pty Ltd

Electronic Power Conditioner

Regulates voltage supply to prevent 'glitches' from disrupting processing. Prices range from \$500.00 - \$1800.00.
Supplier: Precision Power Products

POWER FAILURE



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Battery back up systems are great... until the battery's limited support time is reached. After that it's goodbye to priceless data. Only Elgar's Failsafe will execute shutdown routines and secure the system. Then, even after a prolonged power down, automatically restart the application. Now, finally, you can confidently leave your computer unattended. Even overnight. It's backed up by Failsafe's automatic reliability. Versions available for DOS and most local area networks.

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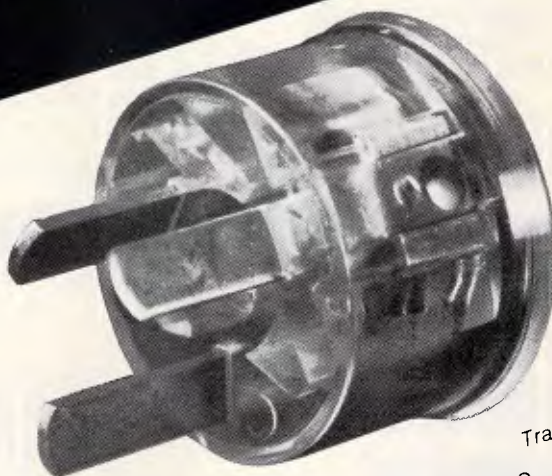
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NAME ADDRESS

..... SIGNATURE

Fanny Mac

Fanny Mac is a fan and power surge suppressor which slides into the handle slot on your Macintosh. The fan provides a temperature drop of up to 35 degrees C, and runs quietly and efficiently, while the MOV surge suppressor protects the Macintosh power supply from mains surges.

Supplier: Symbiotic Computer Systems

IBM PC Convertible Auto Power Adaptor

The IBM PC Convertible power adaptor is designed to power the system unit while simultaneously charging the internal batteries of the system unit. The adaptor plugs into the cigarette lighter outlet in a vehicle with a 12V negative-ground electrical system. When a CRT display is attached it will require a separate AC source.

Supplier: IBM Australia

Islatrol Active Tracking Filter

Patented active-tracking filter removes spikes and transient power disturbances

which account for 90% of all power related problems for computers.

Supplier: Precision Power Products

Matsunaga Automatic Voltage Stabiliser

Electronically senses mains voltage and automatically corrects for fluctuations to maintain a constant 240V for microprocessor operation.

Supplier: Electromark Pty Ltd

Memory Guard

The Memory Guard is an uninterruptible power supply which supplies 240V AC free from surges, sags, spikes and line noise of all types. Should a power failure occur, the Memory Guard sounds an audible warning and switches to its battery backup power supply, from which it generates 240V AC. This supply gives the user 15 - 25 minutes to finish work and shut the system down in an orderly fashion.

Supplier: Symbiotic Computer Systems

Perfect RUPS 1000VA

The RUPS 1000 protects microcom-

puter from virtually any power fluctuation or interruption, from a flicker to a total failure. It will run any standard micro up to 10 mins on a full load and constantly monitors and protects against surges, spikes and line noise. It has a rating of 1000W, back-up time of 10 minutes full load, 30 minutes half load and is priced at \$2737.00 including tax.

Supplier: Emona Computers Pty Ltd

Perfect RUPS 300 VA

The RUPS 300 has a backup time of 6 minutes full load and 16 minutes half load and the price is \$1212.00 including tax.

Supplier: Emona Computers Pty Ltd

Perfect RUPS 500 VA

The RUPS 500 it has a rating of 500W, a backup time of 10 minutes full load, 30 minutes half load and is priced at \$1597.00.

Supplier: Emona Computers Pty Ltd

Perfect VPS 250

The VPS 250 has a rating of 250W, back-up time of 15 minutes full load, 25 minutes half load and price \$625.00 inc tax.

Sola introduces a new breed of power conditioners

The new, compact electronic-based Power Conditioners from Sola Australia come from a long line of champions.

Ever watchful, these power protectors guard against the worries of down-time and data losses due to transients, noise, spikes, dips and other mains disturbances.

The proof of their top performance and reliability is plain to see in their pedigree.

After all, Sola has been the leader in power protection for over 50 years.

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SYSTEMS



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Power Conditioning Equipment

Sola Basic is an Australian supplier of power and protection devices throughout Australia and the Asia-Pacific region. Sola supplies a broad range of Power Conditioners and Uninterruptible Power Supplies with a choice of technologies and prices. New manufacturing and office facilities in Victoria expand Sola's local production of world-class products. The company's association with the General Signal Corporation (US) gives it access to research and development facilities worldwide.

Supplier: Sola Basic Australia Ltd

Precision Power Products

Precision Power uninterruptible standby power systems 500VA and 1000VA, \$2400.00 to \$3500.00. Precision Power electronic power conditioners 200VA to 3000VA, \$500.00 to \$1800.00. Islatrol spike and transient suppressors - single and 3-phase models 1 Amp to 1200 Amp, \$170.00 to \$35000.00. BMI power line and environment monitors \$775.00 to \$23000.00.

Supplier: Precision Power Products

Switchmode Power Supplies

Switchmode Power Supplies repair all types of power supplies and offer fast turnaround with professional results. They stock a huge range of 'difficult to obtain' spares and have dedicated test facilities. They have specialised experience in the repair of Lambda, HP, Wang, Olivetti, DEC and Data General power supplies. 'High volume/fixed rate' and 'time and materials' services are available depending on your needs.

Supplier: Switchmode Power Supplies

The Button Voltage Surge/Spike Protector

'The Button' voltage surge/spike protector protects computers, TVs, stereos, cash registers, telephone exchanges and other sensitive electronic equipment from voltage surges caused by lightning, induction and load switching. Features include: SECV approval CS85344V; UL listed (UL 1449); meets IEEE 587 surge suppression requirements; protects on all modes line-neutral, neutral-ground, line-ground.

Supplier: Talisman Trading Co

Topaz Line 2 Power Conditioner

The Topaz Line 2 power conditioner with power logic control attenuates power line noise, regulates the line voltage and isolates the load from the power source. A specially designed isolation transformer gives excellent noise attenuation up to 130db, while a micro-computer controlled switching device regulates voltages to within +4% to -8%.

Supplier: Online Control Pty Ltd

Topaz Powermaker Micro VPS

The Topaz Micro VPS is specifically designed to protect small business computers and communications systems against blackouts, brownouts and electrical noise. The self-contained unit provides a battery backed AC sine wave supply. Two models are available, 400VA and 1kVA giving up to 35 minutes back up during a power shortage.

Supplier: Online Control Pty Ltd

Topaz Ultra Isolator

This device eliminates electrical noise on power lines. Using Ultra high transformer isolation techniques, Topaz Ultra isolators attenuate noise by up to 40 million to one.

Machines: Any

Price: P O A

Supplier: Online Control Pty Ltd

Tycor Powerline Filter

Protects all microprocessor equipment from mains borne interference resulting from lightning strikes, welding operations, heavy switching etc and prices range from \$400.00 - \$12000.00.

Supplier: Electromark Pty Ltd

Uninterruptible Standby Power Supply

Holds up power to computer system in the event of mains power failure. Prevent voltage spikes from interruptible processing. Price ranges from \$2400.00 - \$3500.00.

Supplier: Precision Power Products

Watford Power Protection Equipment

Watford Power Systems supply power conditioners from 250VA - 250kVA; standby power supplies from 300VA - 5kVA; uninterruptible power supplies from 1 - 5kVA and Staticide anti-static fluids for complete environment control.

Supplier: Watford Power Systems Pty Limited

Watford Power Supplies

Power and Line Conditioners. Standby power supplies. Uninterruptible power supplies. Antistatic fluid. Monitoring power. Watford Power Systems Pty Limited specialise in products and services which protect computers from electric power related problems - voltage sags and surges; high voltage spikes; high frequency noise; brown outs and total power failures. This avoids costly corruption of your data. Watford Power can monitor your power circuits and submit a recommendation as to how your power problems can be eliminated.

Supplier: Watford Power Systems Pty Limited

OUTPUT FILM/VIDEO

Genlock

PAL Genlock for home and professional use. Commercial version is priced at \$1599.00.

Supplier: Acme Software

MPS-200 Film Recorder

A high resolution film recorder capable of producing full frame slides with up to one million colours. It produces slides from between 45 to 150 seconds and automatically advances the film. It can also produce 3 1/4" x

4 1/4" Polaroid instant prints.

Resolution: 2048 x 1366

Buffer: 256 or 512k

Character Sets: 6 standard fonts

Interfaces: RS232

Compatibility: IBM PC/XT/AT & comps

Op.Sys: PC/MS-DOS

Price: \$18000.00

Supplier: Dimension Graphics Pty Ltd

Matrix 3000 Colour Graphic Recorder

Video driven, multi-format Model 3000 Colour Graphic Recorder creates precision full colour images directly from your terminal by taking red, green and blue signals and outputting them to 35mm slides, 8 x 10 overhead transparencies, 8 x 10, 4 x 5 and SX-70 instant prints or motion picture film. Aided by raster suppression and built-in, high line rate monitors, quality is superior to that of the terminal.

Technology: **Video film recorder**

Resolution: **1280 x 1024**

Price: **\$17233.56**

Supplier: **Quentron Digital Systems**

Matrix 600 Video Film Recorder

The Matrix 600 uses video signals directly from the display monitor to generate an image on a flat screen monochrome CRT which is then recorded onto film through red, green and blue filters. This process along with automatic time smoothing controls and precise optics, enables the 600 to produce images on film that are far superior to pictures photographed directly from the screen. The 600 is intended for use with ultra-high resolution displays.

Technology: **Video film recorder**

Compatibility: **IBM 5080, USN 3/160C & high res. graphics**

Price: **\$20202.54**

Supplier: **Quentron Digital Systems**

Matrix PCR Digital Film Recorder

The Matrix PCR is the deskside portable colour recorder for 35mm slide production from computer generated images. The PCR transforms low resolution charts, pictures and graphs into razor sharp, artist quality images with a resolution of 4096 x 4096 pixels. PCR is compatible with all major mainframes, minis and PCs and is driven by most popular business graphics packages such as Lotus, Freelance Plus.

Technology: **Digital film recorder**

Resolution: **4096 x 4096**

Speed: **45 images per hour**

Buffer: **IMB**

Interfaces: **IEEE std 488 - 1978 and others**

Feed Options: **35mm rolls, 36 frame, 100 ASA**

Print positions: **V11000**

Paper size: **35mm film**

Price: **\$23824.00**

Supplier: **Quentron Digital Systems**

Matrix QCR-2 (Quality Colour Recorder)

The QCR-2 produces full colour 4096 line resolution slides generated from computer generated images. The QCR-2 also provides 12-bit colour, look-up tables for superior shading capabilities. An upgrade is also available to transform a QCR D4/2 into a QCR-2.

Technology: **Digital film recorder**

Resolution: **4096 x 4096**

Speed: **Less than 3 mins per slide**

Feed Options: **35mm film, 4" x 5", 8" x 10"**

Price: **\$42903.00**

Supplier: **Quentron Digital Systems**

Matrix TT200 Thermal Printer

The TT200 produces high quality 8" x 10" colour transparencies and prints. Most microcomputer graphics software drives the TT200 through the Matrix QVP vector - to - raster processor. This provides typeset quality fonts, and 256 colours (selectable from 16 million). Pictures created on the TT200 with the QVP can be sent directly to the Matrix QCK and PCR film recorders, to output presentation quality 35mm slides.

Technology: **Thermal transfer colour printer**

Resolution: **200 x 200dpi**

Speed: **8 colour, 60 secs; 256 colour, 140 secs**

Character Sets: **Large range of bit characters available**

Interfaces: **8-bit Centronics parallel**

Feed Options: **Paper, transparency**

Paper size: **A4 (8.5")**

Compatibility: **Most computer graphics systems**

Price: **\$12042.00**

Supplier: **Quentron Digital Systems**

Matrix Thermal colour printer

Can be used for 35mm slide, or direct to ready artwork paper.

Resolution: **2400bpi**

Interfaces: **RS232**

Op.Sys: **PC/MS-DOS**

Price: **\$21000.00**

Supplier: **Minicomp Graphic Peripherals Pty Ltd**

Matrix Vector Processor (PC)

The Matrix MVP-PC graphics processor ac-

cepts vector data files from many business graphics, CAD, artistic and design software packages, and outputs raster data to high resolution colour film recorders and thermal, laser and inkjet printers. The MVP-PC is easily installed in an IBM PC/XT/AT or compatible. It optimises the quality of graphic output by using the maximum resolution and full range of colours supported by the colour hardcopy device. Output to video display board is also supported for high resolution and true colour preview on graphics monitors.

Compatibility: **IBM PC/XT/AT & compatibles**

Op.Sys: **PC/MS-DOS**

Price: **\$4000.00 - \$5000.00**

Supplier: **Quentron Digital Systems**

Photomaker

Photomaker is a 'palette' like film recorder capable of producing high resolution, full (1000) colour slides from the 'Videoshow'. It is easy to use and gives an unprecedented price/performance ratio.

Resolution: **2000 x 500/1000**

Compatibility: **IBM PC/XT/AT & compatibles**

Op.Sys: **PC/MS-DOS**

Price: **\$8373.00 - \$10244.00**

Supplier: **Dimension Graphics Pty Ltd**

Polaroid Palette Computer Image Recorder

It is a complete system for recording colour computer graphics from your PC. It enables you to choose from a palette of 72 colours and is supported by all popular graphics software packages.

Resolution: **920 x 700**

Interfaces: **RS232 and RS170**

Feed Options: **Auto for 35mm film**

Compatibility: **IBM PC/XT/AT & compatibles**

Op.Sys: **PC/MS-DOS**

Other Req's: **CGA or Quintar 1080**

Price: **\$2679.00**

Supplier: **Dimension Graphics Pty Ltd**

Quintar 1080 Colour Graphics Controller

Used to create high quality slide presentations by controlling the Polaroid Palette. It enables the use of graphics adaptors other than the CGA, providing higher screen and output resolutions.

Technology: **IC**

Resolution: **832 x 630 x 4**

Buffer: **16k**

Character Sets: **Optional font cartridges**

Interfaces: **RS232**

Compatibility: **IBM PC/XT/AT & com-**

patiblesOp.Sys: **PC/MS-DOS**Other Req's: **Serial port**Price: **\$4395.00**Supplier: **Dimension Graphics Pty Ltd****Videoshow**

A presentation device that can be attached

to a colour monitor, any NTSC television/video recorder or large screen projectors. The pictures are in high resolution and can have up to 1000 simultaneous colours. It can also produce hardcopy and 35mm slides.

Technology: **Macrovision**Resolution: **1000 x 525**Buffer: **256**Interfaces: **RS232**Compatibility: **IBM PC/XT/AT & compatibles**Op.Sys: **PC/MS-DOS**Other Req's: **'Picture It' software**Price: **\$8770.00 - \$11844.00**Supplier: **Dimension Graphics Pty Ltd**
standard with a 360k diskette drive and controller card and has a connector for an

OTHER PERIPHERALS

Computer Cash Drawer (Model 120)

The Model 120 series of Computer Cash Drawers can be used in conjunction with a computer or terminal to form a Point of Sale cash register system. Interfacing to a computer is simply a matter of connecting a line to a serial communications port.

Machines: **Any**Price: **\$570.00 - \$920.00**Supplier: **Unique Micro Design Pty Ltd****Flexeprom & EP232**

The Diamond Systems EP232, Flexeprom and TTL Prom adaptors are economical RS232 and IBM BUS interfaced chip programmers. Designed to convert your PC into a chip programmer, they support a wide range of devices including EPROMS, CMOS EEPROMS, single chip micros and fusible link TTL PROMS. Australian designed and manufactured.

Op. Sys.: **PC/MS-DOS**Price: **\$390.00 - \$560.00 excluding tax**Supplier: **Diamond Valley Micro Systems****IBM Expansion Unit Model 1**

The Expansion Unit Model 1 contains one 10Mb fixed disk drive and eight expansion slots. Six of these slots are full length slots, the remaining two are short slots. One of the full-feature slots is used for the fixed disk adaptor which can reside in an Expansion Unit, with the exception of memory cards, diskette adaptor, and the primary monitor/display attachment card. One additional 10Mb fixed disk drive can be installed in the Expansion Unit for a total of 20Mb fixed disk storage. The model 2 Expansion Unit is available for the IBM PC/XT.

Machines: **IBM PC**Supplier: **IBM Australia****IBM PC Data Acquisition Device**

The IBM PC Data Acquisition and Control Adaptor Distribution Panel provides easy access to the I/O signals, voltages and grounds of the IBM PC Data Acquisition and Control Adaptor. It features screw terminal convenience to attach devices to the distribution panel; multiple grounds for up to 88 twisted pair terminations; shielded construction to minimise noise interference; a 60-pin flat cable permanently attached to the board.

Supplier: **IBM Australia****MacCharlie 640k, Two Drives**

A unique device allowing the use of IBM PC software on the Macintosh, the MacCharlie contains two 5 1/4" disk drives and 640k RAM. In addition to running IBM PC software on the Macintosh screen, MacCharlie also contains file transfer utilities allowing files to be exchanged freely between the PC and Macintosh programs (which may run simultaneously). The desk accessories and the familiar cut and paste functions also work in the IBM mode, while the 640k of RAM from the MacCharlie can be used as a giant print spooler.

Supplier: **Symbiotic Computer Systems****MacCharlie Expansion Chassis**

The Expansion Chassis plugs into the MacCharlie and provides six full-length slots to allow the addition of such features as network connections, terminal emulation, hard disks, modems, colour monitors and other devices. The chassis has its own power supply and is of low profile so that the footprint of your MacCharlie workstation is maintained.

Supplier: **Symbiotic Computer Systems****PC Video Network**

The PC Video Network allows a computer to transmit its display image to several other monitors. The system finds use in training, sales promotion, demonstrations and educational applications where the information from a single PC needs to be seen by several people within a room or building. In training applications the students can learn on their own PC and switch to the teacher's screen for guidance independent of other students.

Machines: **IBM PCs, NEC APCs, IBM AT & compatibles**Other Req.: **All connected monitors must be of one type, either monochrome or colour.**Price: **\$288.00 (master unit); \$216 (slave unit)**Supplier: **Unique Micro Design Pty Ltd****POS Peripheral Controller**

The POS Peripheral Controller attaches to the serial or parallel port of a PC or terminal and controls a cash drawer, two parallel printers, two optional courtesy display modules, two optional serial ports, optional magnetic stripe card reader & optional bar code reader. Combined with Unique Micro Design's Computer Cash Drawer, the POS Peripheral Controller allows a terminal or PC to be converted into a versatile Point of Sale system.

Machines: **Any**Price: **\$920.00 for basic unit**Supplier: **Unique Micro Design Pty Ltd****Sidecar**

This is an expansion device for the Amiga offering IBM compatibility. It is virtually an IBM computer which can be run as one task on the multi-tasking Amiga. It comes

1987 NEW PRODUCTS

A collection of Swain 1987 new products. The items include a large orange cord winder with a white face and the text "CORD WINDER" and "SWAIN PORTABLE POWER"; a white power strip with a red switch and the text "SWAIN SP 500E"; an orange blower; several cables with different connectors (D-sub, BNC, and power); and various connectors and adapters. The products are arranged on a blue background with a pink gradient at the top.

TEL: (02)505-3487, 502-1085 TELEX: 25468 SWAINIC FAX: (02)501-0544

Amiga 3 1/2" disk drive. It can accept hard disks as well and this storage can be shared by Amiga and MS-DOS.

CPU: 8088

Memory: 256 - 512k

D'tte: 1 x 360k 5 1/4" diskette

Supplier: Commodore Business Machines

Static Discharge Systems

A range of static discharge systems to protect computer users from electrical shock caused by static buildup and safeguard against data loss from the same

cause.

Supplier: Matting Industries Australia

Vert Plus

A dedicated speech synthesiser card and memory resident software which verbalises screen output and keyboard input while an application is being run. It uses an external speaker which plugs into the card. A review mode allows the user to suspend an application and direct the card to read the contents of the screen. The user can customise the way in which the screen is read, allowing it to deal

with windows, columns, access by punctuation or by words, etc.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 64k

Other Req.: Asynchronous communications

Price: \$4400.00

Supplier: Wormald International Sensory Aids

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Communications

Kester Cranswick gives a run-down on how to get your computer communicating.

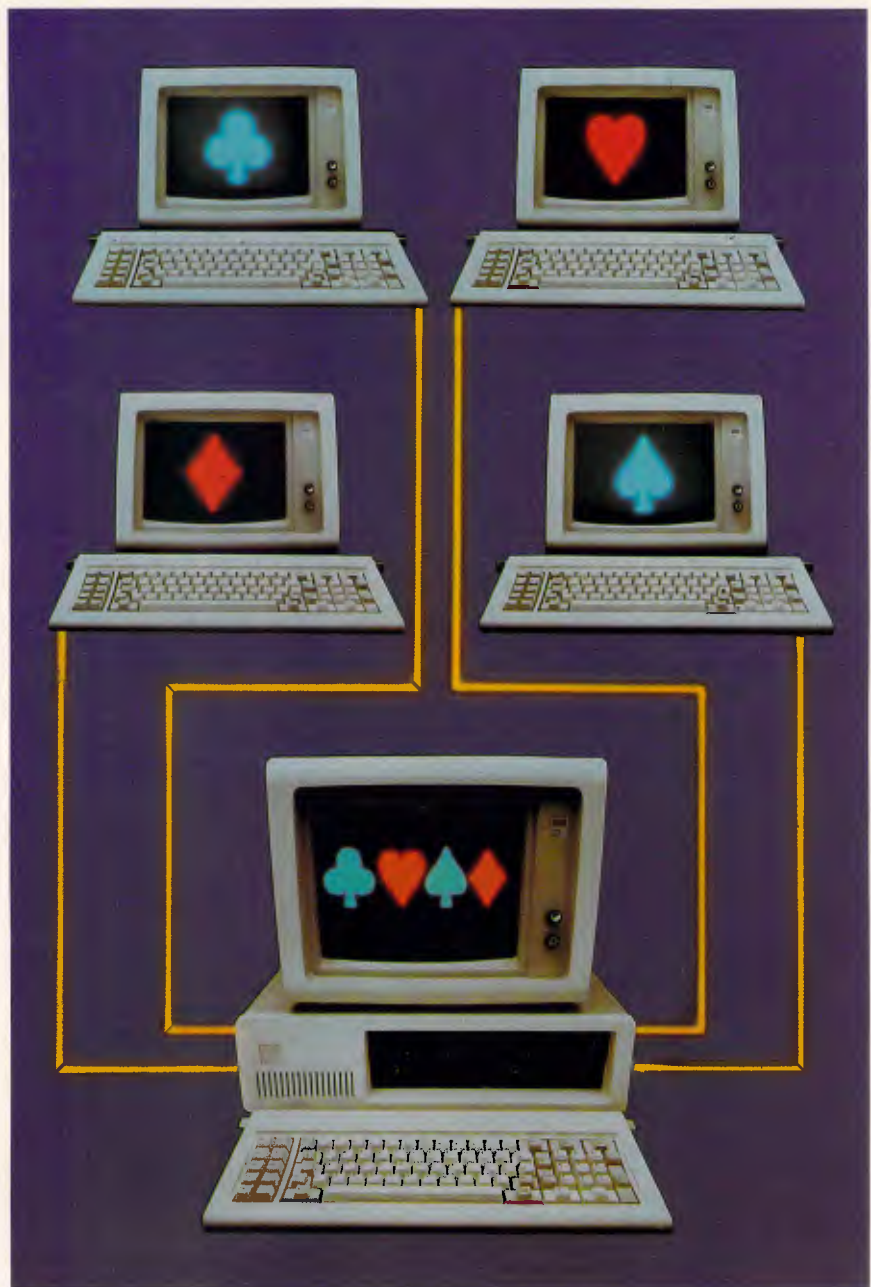
We have devoted a whole section of this directory to the subject of communications. That's because communications between computers is getting to be as important as the computers themselves.

For communications, you'll need a communications board. This will have one or more RS-232C or parallel ports on the back, and enables your PC to talk to other computers, printers, mice and modems. Many manufacturers combine a communications board with other functions too. For instance, a clock, to automatically date and time files, or allow computerised diaries to be run, is a common feature of multi-function boards.

Closely allied to the communications board is a board that comes with a built-in modem. A modem is a device that turns digital data into signals that can be squirted down a telephone line. A modem at the other end turns these signals back into digital data. Modems are therefore essential if two computers not connected by a cable are to communicate.

Modems are defined by the rate at which they send data. The unit of measurement is the Baud, with one Baud being one bit per second. 300 Baud modems are the most basic and least expensive. Modems that send data at 1200 Baud are now quite common, while 2400 Baud modems are becoming more popular every year. The fastest commercial modems send data at 19200 Baud. To use Viatel and other videotex services, you'll need a 1200/75 Baud modem, sending data at 75 Baud, and receiving it at 1200 Baud.

Having the modem on a plug-in card avoids having another black box attached to the computer, and the cost of a cable. An external modem can obviously be used by more than one com-



puter, though there is no difference in operation.

When buying a modem, get one that has all the Baud rates you are likely to need. A 300, 1200 and videotex should cover all that. It is also advantageous to have a 'smart' modem. Such a modem recognizes the now standard 'AT' commands which enable a computer to automatically have the modem dial a number, answer a call, change settings, hang up and so on. 'Dumb' modems mean you, the user, have to flip switches, dial numbers and mess around.

Allied to communications boards are networking boards, allowing different computers to be linked together, using a number of different standards.

There are many ways to network micros, and if you want to get into networking, you'll need to explore the Local Area Network (LAN) scene. It requires a combination of software and peripherals, terminals and controllers.

In its simplest form, a networking board will let your PC act as a terminal to a mainframe computer, linked to the mainframe network controller. You will be able to upload and download files for manipulation on your PC, and, with the right software, run mainframe applications from your PC, at the same time as PC applications.

An alternative this is to install an emulator board, that turns your PC into the equivalent of an intelligent terminal for an IBM mini or mainframe computer. The screen display looks like that of an IBM 3278/9 display station, and has the same functionality. Other emulator boards turn a PC into a controller that links a number of terminals connected to a mini or mainframe.

To link PCs that must interchange PC data, a particular LAN standard is adopted. Popular standards are Token Ring, from IBM, Novell, 3Com and Net/One. Choosing from these options is a matter for engaging a consultant, deciding on your needs, and your budget, and keeping a wary eye out on what the future may hold.

A file server is added to the system too, whether it be a separate unit, or a PC devoted to the task. This controls the network, who has access to what and so on. Each user runs his or her own applications, and files may be stored centrally for everyone to access. When a file is being accessed, it is usually locked so nobody else can change that particular piece of data at the same time. PCs on the network can

also share printers and other peripherals.

The third stage of networking is having a system that allows users to share the same applications. This means having a multi-user Operating System, such as Unix or Xenix, the communications boards and a central data store.

Networking is a complex area, but the peripherals exist to link your PC to almost any IBM mainframe environment, or other PCs, so that a whole office can work together.

There are plenty more peripherals too, though many are very specialized. Fortunately, most of us can get by using the types of products outlined above. But, if you want to interface your PC to a robot, or have it control security in a home, or make it automatically collect data from scientific experiments, have a look in the interface section of the Boards chapter. If you cannot find what you need there, asking enough people will usually get you a lead on something to help.

Communications Software

There is a wide range of communications software to choose from too, and the field embraces standalone programs, public domain programs and modules in other commercial programs.

What communications software needs to do is fairly simple. It must allow you to alter the communications settings of your modem and computer, it must allow you to control the modem and it must allow you to send and receive files to and from a remote computer.

Communications software can be very simple indeed, so much so that a simple Basic program can be written to do the job. There are also many public domain packages, written by enthusiasts and hobbyists, that are available through bulletin boards.

But for the really good stuff, you must go to commercial software, where there are packages that can do everything in the communications world except, perhaps, talk.

Communications modules often form part of an integrated package, so the user can 'talk' to another computer without leaving the current application. Some dedicated applications, such as word processors, are also coming with communications facilities as part of their specifications. Such modules do

the job, but are rarely that sophisticated.

The limitation on what you can do with communications is usually the modem, not the software. Most software will allow all the settings possible on a modern modem to be used.

Desirable Features

There are desirable features to look out for. File transfer protocols is the biggest area of divergence. If you want to send or receive binary files, or use a wide range of protocols, that is a software function. Text files can be handled by any software. Files with different sorts of formatting, or some of the more obscure protocols, may not be handled by all software. However, while advanced users may need to search out for the most versatile software, most users will find most packages meet their needs.

Useful facilities to look out for include the ability to remember screens of text as they are received by the computer, macro facility, so that a single keystroke can initiate a sequence of commands, and automatic log on procedures, to ease the access path. With such facilities, communications software can get very complex to use, but the features are worth the learning involved.

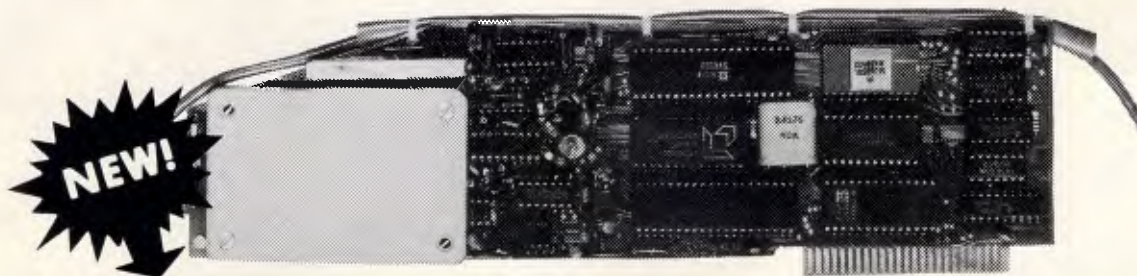
Videotex software is a slightly different animal. It needs a special Prestel character font, and must handle data being transmitted at two Baud rates. It usually doesn't have all the bells and whistles of standard communications software, but it should have a facility to remember videotex frames.

For communicating with mainframe computers, there are specialised programs too. These may be micro versions of mainframe packages, able to handle the file formats of and interact with a mainframe application, or software that lets a microcomputer act like a terminal to a mainframe.

Included in the communications software basket is also network management software. Generally, this will come as part of a network installation. It gives the facility to hang several micros off a single hard disk or file server, and for users to set up partitions in the hard disk for their files. It is an emerging field, and much of the software in this area is state of the art. However, if you plan to go into networking, make sure you study the market, and the standards that apply, very thoroughly.

MODEM FOR APPLE II & IIE

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SUPPORTS FULL COLOUR VIATEL AND COLOUR VIATEL PRINTING ON THE APPLE II GS AND IMAGE WRITER PRINTER.

* Super intelligent direct connect MODEM/VIATEL terminal for APPLE II, IIE & compatibles fully contained on a single card — plugs into slot#2 — does not require separate serial card or software. All software is permanently resident in an onboard 128K EPROM. It is hidden in the slot#2 card space, leaving the whole of memory completely free for other programs unlike disk based comms software which must occupy the main memory excluding other programs. It is menu driven and automatically senses for ProDos or DOS 3.3 operation. Received files are appropriately converted before saving and can be used.

Sending/receiving files is very simple:—

- Press "ESC" to display menu.
- Select "(S) END A FILE" option
- Answer the prompt "FILENAME?:"

The modem will search the disk for the file, make all the decisions (e.g. binary, basic, textfile, DOS 3.3 or ProDos) and transmit it in the correct format. <CR> transmits the file in memory. Similarly to receive a file select "(R) RECEIVE A FILE" option.

* **AUTO ANSWER — AUTO DIAL.** Senses true dial tone, ring tone, busy tone and acts intelligently, returning status messages. Characters can be included in the phone number to set baudrate, pause, "await dialtone" and multiple redial on busy. On answer, it selects the incoming baudrate by precision frequency measurement. This is much more reliable than the normal autosearch using carrier detect which is often confused by voice and phone tones. A reliable autosearch is a must for bulletin board operation.

* 300 Baud full duplex or 1200/75 and 75/1200 with fast automatic line turnaround. An upgrade kit to add V22 (1200/1200 baud) and V22 Bis (2400/2400 baud) will be available later.

* **Main menu option "(V)IDEOTEXT"** shows the VIATEL menu. It becomes a full graphics VIATEL terminal, automatically dialling and transmitting the user ID stored in the battery backed ram. When online, a keypress will immediately save pictures to memory. These can be reviewed later and selectively saved to disk or printed (requires a graphics printer card). Pictures can be loaded from disk and printed out. The modem can act as a videotext host and can be programmed to act on frame information. e.g. — use the clock to ring "MONEYWATCH" hurly and dial you at the office if your shares move outside a given range.

* **TELESOFTWARE DOWNLOAD** facility to purchase programs over VIATEL from suppliers such as MICROTEx 666 and TANGO.

* A full wordprocessor in EPROM for pre-composition of text before transmission. It can also be used to edit or print received files as well as for general wordprocessing.

* Onboard battery backed calendar clock can time and initiate calls or keep an activity log. ProDos uses it to time and date disk files and it is accessible from Basic.

* 2Kx8 battery powered CMOS RAM stores default parameters, phone numbers, ID, password, logon strings, search codes and setup parameters (e.g. baud rate, parity, printer ON) for each number, allowing single keystroke call establishment to specific areas of complex databases. Main menu option "(T)ELELIST" displays the list of 23 names and one is selected.

* Incorporates XON/XOFF and CHRISTENSEN error correcting protocol. Textfiles are not so fussy but error correction is a must when transferring program files. A debug function can display normally invisible control characters sent by the host.

* Can output directly to printer even when online at 1200 Baud — a fast printer is not required as the printer is spooled out of the receive buffer. A "FILTER" function is available to remove screen control characters from textfiles (these can drive a printer crazy). Special scroll routines print to 80 column screen and printer at 1200 Baud without any lost characters.

* Unique "PHANTOM MODEM MODE" function allows the modem to be permanently connected with the normal phone. When answering, if it doesn't immediately detect a calling modem it generates ringing tone back to the calling party and sounds the APPLE bell, giving you 60 seconds to answer the phone.

* If you have previously purchased this modem and have not yet received an updated EPROM VERSION V2.18 and a manual, contact AUTOMATIC ICE CO. — there is no charge for these.

AUTOMATIC ICE COMPANY

Mastercard & Bankcard

10 SMITH STREET, CHARLESTOWN, 2290.
PHONE (049) 63 3188 — (049) 63 1386

Price **\$299** (incl S/T)

Access v 1.0

Microsoft Access is a communications package with advanced features that can connect to commercial information services and electronic mail services. You can use Access to connect to mainframe, mini-computer systems or another microcomputer from the office or at home.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Other Req.: **RS232C cable with**

asynchronous communications card.

Monochrome or colour display. Modem.

Price: **\$475.00 ex tax**

Supplier: **Microsoft Pty Ltd**

Acculink

Acculink Micro/16 is an asynchronous communications applications package that allows the APC-III computer to communicate with other computer systems in the standard asynchronous format. Connections to an asynchronous modem or a direct connection between computers are allowed.

PCs: **NEC APC-III**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Baud Rate: **300 to 1200**

Other Req.: **Modem, RS232 cable**

Price: **\$275.00 ex tax**

Supplier: **NEC Information Systems**

Altos Async

Completely menu-driven communications providing 3 methods of file transfer, choice of data checking methods, automatic error checking, permanently stored phone list, wide range of communications settings, command line options for faster control of program, ability to communicate with an unattended remote Altos computer and customised dial script.

PCs: **Altos**

Op. Sys.: **Xenix Run Time, Unix System V (3068)**

Price: **P O A**

Supplier: **Altos Computer Systems**

Altos PC Path II

Path II allows IBM PCs to connect to an Altos network and investment, removes limitations of isolated PCs and expands storage capacity. Shares disk drives, printers and allows PC to run as a 'virtual' terminal and access mainframe communications. Supports Altos PC Plex.

PCs: **Altos**

Op. Sys.: **Xenix, Unix**

Price: **P O A**

Supplier: **Altos Computer Systems**

Altos X.25 Interface

Certified on Telenet, Tymnet, Uninet PDNS in U.S.. X.29 remote host assembly. Supports up to 32 permanent and/or switched virtual circuits. X.3/X.28 packet assembler/disassembler (PAD) emulator. Altos to Altos remote file transfer program. C language interface. Accessible across Worknet II.

PCs: **Altos 3068, 1086/2086,**

586(T)&986(T)

Price: **P O A**

Supplier: **Altos Computer Systems**

Amiga Term

Amiga Term enables your Amiga to communicate with other computers, bulletin boards, information services and overseas links like OTC's Minerva. It can display 132 columns of text on screen without scrolling and can perform TTY and simple VT52 and VT100 terminals.

PCs: **Amiga**

Op. Sys.: **Amiga DOS**

Baud Rate: **110 to 19,200**

Price: **P O A**

Supplier: **Commodore Business Machines**

Ascom, Ascom 4

This is an all purpose communications package that features fully programmable protocol and uses a script language. Separate versions for MS-DOS and CPM operating systems.

PCs: **IBM PC/XT & compatibles, CPM machines**

Op. Sys.: **PC/MS-DOS, CPM 80/86**

Price: **\$299.00**

Supplier: **Fagan Microprocessor Systems**

Asynchronous Comms. Support 2.00

The Asynchronous Communications Support allows users, with no additional programming, to use their IBM Personal Computers as asynchronous (start/stop) terminals. The package also allows the IBM Personal Computer to exchange program and data files with the host system or another IBM PC allowing attachment to a variety of host computers.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **64k**

Storage Req.: **One diskette drive**

Baud Rate: **75-9600bps**

Price: **P O A**

Supplier: **IBM**

BOS Communications

BOS Communications allows you to trans-

fer data between a BOS computer and a remote computer using X.25, 2780/3780, ICL C-03, BSTAM and XMODEM protocols. There is also an option for terminal emulation for a PC. The BOS Operating system itself allows communications through modems to any serial device without the need for any special communications software.

PCs: **Large range of Micro & minis**

Op. Sys.: **BOS**

Memory: **128k**

Baud Rate: **9600**

Price: **\$500.00**

Supplier: **Soft Centre Pty Ltd**

Carbon Copy

Carbon Copy is a remote control program for IBM PC/XT/AT and compatibles. Once connected you can run application programs, hardware and software diagnostics, utilities, etc. It links the screens, keyboards, disks and printers as one. A keystroke entered on one can be seen on the other simultaneously. Carbon Copy also has capture screen image and full file transfer facilities. A system log and automatic call back feature are included.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS 2.1 and higher**

Memory: **256k**

Storage Req.: **300k**

Other Req.: **Serial port and Hayes compatible modem.**

Price: **\$421.00 ex tax**

Supplier: **PC Plus**

Chitchat

Enables PC user to send and receive electronic mail using products like Minerva, act as a terminal to Viatel and transfer files between computers. It won the U.K. Software Product of the Year Award in 1985.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **1 x 360k floppy**

Baud Rate: **various**

Price: **\$299.00**

Supplier: **Personal Computer Software Pty Limited**

CrossTalk

CrossTalk is an advanced communications program that has earned the distinction of becoming the standard for transfer of information to and from microcomputers. Using CrossTalk you can send text or program files from your disk to almost any other com-



Persyst. The wise choice for PC data comm. Take a look!

Persyst's DCP-88 is a PC data comm solution worth eyeing. A front-end processor smart enough to offload comm processing so your PC can sink its claws into your application.

And the DCP-88 works with your IBM-PC, PC/XT, PC-AT, PC/RT or PC-compatible. To turn any PC into a real communications work station—not a way station.

DCP-88's processor keeps your PC working on applications, not protocol overhead. The onboard processor offloads comm overhead, freeing your PC to focus on applications.

Choose from two DCP-88 models—each with a processor poised to swoop into action. The DCP-88/VM with its 4.77 MHz 8088 is capable of handling most applications. Or, for nearly twice the throughput, select the DCP-88/VMX with a 7.16 MHz processor.

Either way, you get a powerful co-processor so your system's comm performance soars.

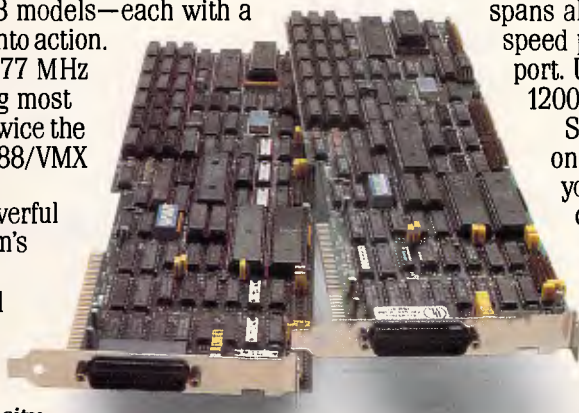
Dual-ported onboard memory speeds data transfer. With up to 512 KB memory, the DCP-88 has more than enough capacity to handle the most sophisticated comm applications.

And the board's dual ported memory architecture allows data to pass directly between processors at memory speed—so communications fly through your system.

Multiple lines and protocols for a multitude of applications. Adaptable as it is wise, the DCP-88 blends into your comm environment. With up to four serial ports, for example, you can tie to multiple hosts or PCs. Plus, the DCP-88 fully supports asynch, bisynch, SDLC and HDLC protocols so your system's smart enough for any application.

Supports printers up to 1200 lpm. The DCP-88 spans all your comm needs, providing high speed printer support via its optional parallel port. Up to 600 lpm on the DCP-88/VM and 1200 lpm on the DCP-88/VMX.

So don't let your PC comm stick you out on a limb. Not when the solution is staring you in the face. Call or write Persyst for a complete look at our DCP-88 line.



Emulex Corporation
Suite 106, 160 Rowe Street
Eastwood, NSW 2122
Telephone Sydney (02) 858 4833

IBM, PC, PC/XT, PC-AT and PC-RT are registered trademarks of International Business Machines.
8088 is a registered trademark of Intel Corporation.

puter.

Price: **\$306.00 including tax**

Supplier: **Imageneering**

Enable - Telecommunications

Enable Telecommunications features: automatic sign-on using stored set-ups; full screen editing during data transmission; VT100 and VT52 terminal emulation; asynchronous Xmodem and Kermit protocols; unattended file transfer; optional Hayes Smartmodem interface; automatic buffering of incoming data.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0/3.0**

Memory: **256k**

Storage Req.: **2 x 360k floppy disk drives**

Baud Rate: **110 - 9600**

Other Req.: **Modem or acoustic coupler.**

Price: **P O A**

Supplier: **Optsoft Pty Ltd**

Higgins Exchange

Higgins Exchange provides the connection for Higgins software to allow full electronic mail connections across a wide variety of networks. Mail can be scheduled according to either volume or time as can the automatic updating of mail groups.

PCs: **File Server**

Price: **P O A**

Supplier: **Charismatek**

ICC Burroughs Transfer Software

Very fast and efficient advanced file transfer software. Uses data compression techniques, blocked mode transmission, and sophisticated error checking algorithms. Three security levels. Transfers any type of file including binary files. Unattended batch transfers or whilst in emulation or other applications. Simple menu driven user interface.

PCs: **Burroughs B21/B25/B27/B28, XE 520**

Op. Sys.: **PC/MS-DOS**

Price: **From \$990.00**

Supplier: **Information Gateways Pty Ltd**

Inter Mac

Inter Mac's teleprocessing allows you and your colleagues to work together on the same files using real data in real time regardless of where you may be. You can alter data on both systems, discuss the matter on the spot and send a picture of advertising layouts to important clients.

PCs: **Apple Macintosh - all configura-**

tions

Memory: **512k**

Price: **\$288.00 including tax**

Supplier: **Gredden Pty Limited**

Mac Chat

Mac Chat lets you send, show, talk about and write on both connected screens no matter where they are. All actions appear on both screens simultaneously. Annotations can be edited until you've made the right decision together. You can draw boxes around important elements. Then simply print the screen at either end or store it.

PCs: **Apple Macintosh - all configurations**

Memory: **512k**

Price: **\$126.00 including tax**

Supplier: **Gredden Pty Limited**

Mainlink Communications

Complete Pick to Pick communications link between Pick-PC and other Pick based computer systems. Does not require extensive or complicated hardware and allows for bidirectional transfer of any data type between machines of up to 3Mb/hour. Maintains data integrity, is user friendly and has a Pick/Basic precomputer so it can be driven through application programs.

PCs: **Pick PC/XT/AT & compatibles**

Op. Sys.: **Pick**

Memory: **640k**

Baud Rate: **Up to 9600**

Other Req.: **Simple cable made up**

Price: **P O A**

Supplier: **Triad Software**

MaxiComm

MaxiComm provides communications with other Amigas, Apple Macintosh, IBM and compatibles, bulletin boards and databases, online guides etc. such as Teledata, MIDAS and Minerva. It allows the capture of incoming data for printing.

PCs: **Amiga**

Op. Sys.: **Amiga DOS**

Baud Rate: **300-9600**

Price: **P O A**

Supplier: **Commodore Business Machines**

Microphone

Microphone can automatically log in, recall and print information, send files and log off even when nobody is about.

PCs: **Macintosh**

Memory: **128k**

Price: **P O A**

Supplier: **Infomagic Australia**

Microtex Videotex & Terminal Comms S/W

Software only and complete hardware and software packages, Videotex and ASCII communications. Software can be configured to suit all types of modems. Package includes software plus comprehensive manual with simple on screen instructions.

PCs: **IBM PC/XT/AT & compatibles,**

Commodore

Memory: **256k**

Storage Req.: **360k (IBM)**

Baud Rate: **300/300, 1200/75**

Price: **C64/128 \$99.00, IBM/NEC**

\$199.00, BBC \$99.00

Supplier: **Information Solutions**

Pty Limited

Mirror

Mirror is an asynchronous data communications package for the IBM PC and compatibles. It provides access to on-line information services, public data banks, mainframe computers, or other PCs for file exchange with error-checking and recovery facilities. It supports most autodial/autoanswer modems, Hayes, Kermit, Xmodem, CrossTalk and other file-transfer protocols.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **192k**

Baud Rate: **110 to 19200bps**

Price: **\$125.00 including tax**

Supplier: **PC Extras Pty Limited**

Move-It

MOVE-IT is an intercomputer communications package allowing error free file transfers between incompatible computers as well as normal communications. Simple, common-sense commands control autodialling, autoanswer, remote activities and even remote control over the other computer. Automatic file compression saves time on the line when you MOVE-IT.

PCs: **IBM PC/XT/AT & compatibles, CP/M**

Op. Sys.: **PC/MS-DOS, CP/M,**

TurboDOS, ConcurrentDOS

Memory: **64k**

Other Req.: **At least one serial port.**

Price: **\$350.00**

Supplier: **Jenton Software**

Multicom

Multicom is both a comprehensive Videotex terminal emulator, and general ASCII communications package. Full colour videotex on IBM-PC, split screen available, with videotex on left and help screen on

right, or full screen videotex. All modems supported. Telesoftware download, file transfer in ASCII user-to-user mode, three page/data store modes, graphics editing offline and transmission are some of the features.

PCs: **IBM PC & compatibles, Apricot PC & Xi**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **1 x floppy disk**

Baud Rate: **1200/75, 300 - 9600**

Other Req.: **RS232 port, limited choice of graphics adaptor for full graphics.**

Price: **\$328.00 including tax**

Supplier: **Syscorp Pty Limited**

Multilink (Advanced)

Turns PCs into multi-user systems. Multilink allows ASCII/Asynchronous terminals to attach to PCs to allow multiple users to simultaneously use the PC. Most asynchronous terminals are supported. Terminals can be remote and dial into the PC for access to PC applications. Multilink also provides a bill boarding capability.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage Req.: **32k + 8k per partition**

Baud Rate: **300bps - 115kbps**

Other Req.: **Serial ports required for each screen.**

Price: **\$1070.00 ex tax**

Supplier: **UNIXbuilt**

Open Access II Communications

This communications package features a user configurable private bulletin board service. It provides communications with other micros, mainframes, and subscription networks. All communications parameters can be user configured and password protected. All connect and log-in sequences can be operated by programmable function keys. Xmodem and Kermit are supported. Data can be transferred to or from other Open Access II modules.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1 and higher**

Memory: **256k**

Storage Req.: **Hard disk**

Other Req.: **Approved modem.**

Price: **\$299.00 including tax**

Supplier: **Software Suppliers**

Open Access II Network Communications

This has the same features as Open Access II communications for users on networks. Any authorised user may access the communications functions or data received through those functions.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1 and higher**

Memory: **320k**

Storage Req.: **Hard disk**

Other Req.: **Approved modem, Novell, PC Net, MS-Net, 3-COM, etc. LANS.**

Price: **\$256.00 including tax**

Supplier: **Software Suppliers**

PC Twister Pair Communications Card

Allows PC to connect to Uniscope Networks via twister pair cable.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Baud Rate: **Up to 64kbps**

Price: **\$794.00**

Supplier: **Unisys**

PC Twister Pair Software

Allows PC to communicate to host rates up to 64 kbps.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Baud Rate: **Up to 64kbps**

Price: **\$937.00**

Supplier: **Unisys**

PK Harmony

PK Harmony allows an MS-DOS based PC to connect to a Pick based host with automatic conversion from Pick to the MS-DOS packages format. The MS-DOS PC can run (Lotus, dBase, Framework, etc) as part of a Pick multi-user environment.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **Pick**

Memory: **256k**

Price: **P O A**

Supplier: **Techcom KSH Systems Pty Ltd**

Persyst DCP88/VM Comms Processor

The Emulex Persyst DCP88/VM and DCP88/VMX distributed communications processor boards have up to four full duplex serial channels that can run in asynchronous or synchronous mode. It

uses an on-board 4.77MHz Intel 8088 processor and up to 512kb of memory. The DCP88/VMX adds 7.15MHz NEC V20 processor for higher line speeds.

PCs: **IBM PC & compatibles**

Price: **\$1700.00 - \$3200.00**

Supplier: **Emulex Corporation**

Professional - YAM

Powerful asynchronous data communications package featuring an extremely powerful script language. PRO-YAM offers a wide variety of file transfer protocols including Ymodem batch, Xmodem/CRC, Kermit and others. A recent addition to the product is the X.PC protocol which closely parallels that of the better known X.25 packet protocol.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS ver 2.0 or higher**

Memory: **256k**

Storage Req.: **2 x 360k diskette drives**

Other Req.: **Serial port modem**

Price: **\$250.00**

Supplier: **PCs PLUS**

Relay Gold

Relay Gold has all the features of Relay Silver as well as the ability to communicate to mainframes synchronously in 3270 emulation. It incorporates simultaneous sending files, receiving files, exchanging messages and running of other programs; unattended mode operation; configuration of connect options; up to 9600bps communications; powerful built-in editor.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Storage Req.: **1 diskette drive**

Baud Rate: **Up to 192000**

Price: **\$445.00**

Supplier: **Kowhai Systems**

Relay Silver

Relay Silver is an easy to learn communication software packages with tutorial and detailed user guide. It has speed features for experts, and allows simultaneous send, receive, edit and printing of any type of file. It supports Auto answer and Auto dial modems. XMODEM, VT100 TTY and APL protocols, and full error detection and correction is supported. If an error occurs you are informed and if possible Relay automatically resends the data. You are also informed of modem errors, which many other communication software packages will not recognise.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Storage Req.: **1 diskette drive**

SYMBIOTIC

Authorised Dealers

Australian Capital Territory

A.C.T. Office Equipment	Fyshwick	80 4710
Computerland Canberra	Philip	82 2911

New South Wales

BusinessWorld Computers	Annandale	550 2455
Castle Computers	Castle Hill	680 2202
City Personal Computers	Sydney	29 5705
Computerland Burwood	Burwood	745 4311
Computerland Chatswood	Chatswood	411 7611
Computerland Parramatta	Parramatta	683 3199
Computerland Ryde	Ryde	808 2866
Computerland Sydney	Sydney	290 2955
Computer Spectrum	Wollongong	27 1666
Computertime	Chatswood	411 5757
The Logic Shop	North Sydney	957 4314
Logical Solutions	Ultimo	212 6655
Logic Source	North Sydney	957 4314
South Coast Computers	Bomaderry	21 5844

Northern Territory

Kent Computer Plus	Winnellie	81 4755
Mike Sandemans Computers	Alice Springs	52 2436

Queensland

The Byte Centre	Cairns	51 2948
The Byte Centre	Milton	369 4099
The Byte Centre	Rockhampton	225 612
The Byte Centre	Townsville	726 531
Centrepont Computer	Springwood	209 4766
Computer City	Morningside	395 6816
Computerland Brisbane	Brisbane	221 9777
Computer Orchard	Cleveland	286 3777
Computerland Mackay	Mackay	57 2577
Medlab Wondai Electronics	Wondai	68 5511
Mount Isa Computer Centre	Mount Isa	43 2929
MyCorp	Brisbane	832 2211
MyCorp	Indooroopilly	378 5111

South Australia

Computerland Adelaide	Adelaide	212 7191
MyCorp	Adelaide	217 0123

Tasmania

Aztech	Hobart	23 7055
Business World	Hobart	23 5377
Management Technology	Hobart	349 018

Victoria

Central Logic Systems	Melbourne	663 6888
Computerland Geelong	Geelong	22 2400
Computers 2000	Frankston	781 4244
Cygnus Computers	Shepparton	22 2444
Geelong Computer Centre	Geelong	22 2844
Harman Bros. Sales	Ballarat	31 3022
IMA Computer Company	Surrey Hills	830 4555
The Logic Shop	Armadale	20 8767
The Mac Centre	Port Melbourne	646 4077
Mildura Office Equipment	Mildura	23 3611
MyCorp	Melbourne	663 4221
Prologic	Abbotsford	429 3188
Robs Computer Centre	Dandenong	791 2900

Western Australia

Computer Choice	West Perth	322 5651
Computerland Perth	Perth	322 7188
MyCorp	Perth	321 0151

New Zealand

Computer Logic	Wellington	72 8932
Computer Corp	Christchurch	48 0627
Computer World	Auckland	39 9216
Data Link Ltd	Wellington	72 9709
Delairco Electronics	Auckland	78 8798
Hands-On (Information) Ltd	Wellington	72 5224

Fiji

Bhanabhai & Company	Suva	31 3022
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Papua New Guinea

BP Business Systems	Port Moresby	22 9206
BP Business Systems	Lae	42 3666

Hardware & Accessories:

HyperDrive 20—20 MB internal Hard Disk
HyperDrive 2000—20 MB internal drive, 68000 co-processor & maths co-processor, & 1.5 Mbytes of RAM
HyperDrive FX/20—20 Mbytes external SCSI Hard Disk
HyperDrive FX/40—40 Mbytes external SCSI Hard Disk
HyperCarry Case—for HyperDrive FX/20 & FX/40 Hard Disks
HyperCare—complete service cover for your HyperDrive products
MacCharlie—run IBM software on your Mac. Includes two drives and 640 K RAM
MacCharlie Expansion Chassis—adds six extra slots to MacCharlie
MacCharlie File Transfer FT-100—transfer files between MS-DOS discs and your Macintosh, serial & SCSI options available
MacCharlie Carry Bag—for Macintosh & MacCharlie
Plus Plus—expand Mac Plus to 2 MB of RAM
MacSnap—expand Mac Plus to 4 MB of RAM
Novy Accelerator Board—maths co-processor for your Mac
Fanny Mac—cooling fan and mains surge suppressor. Slides into handle of your Mac
LoDown Hard Disks—large capacity SCSI Hard Disks
LoDown Tape—up to 50 MB Streaming Tape Backup
LoDown Combo—Streaming Tape Backup & Hard Disk in one unit
LoDown 400—SCSI adaptor for Mac512K
LoDown Scanner—300 dpi image scanner
LoDown CD ROM—up to 800 Mbytes of Compact Disc storage!
MacVideo—connect your Mac to a monochrome video monitor
Colour MacVideo—connect your Mac to an RGB colour video monitor
MacMonitor—26" monitor with sound for MacVideo
MacMonitor RGB—26" RGB monitor with sound for Colour MacVideo
Universal Printer Interface—connect your Mac to any serial or parallel printer
MacNifty Audio Digitizer—store, analyse, manipulate, & replay sounds
A/B/C/D Switch—connect up to four peripherals to one serial port of the Mac512K
Thunderscan—scan grey-scale pictures for desktop publishing applications
Symbiotic Memory Guard—provides power for up to 25 minutes if mains supply fails
Modem Security Unit—bad news for hackers!

Utilities:

Plot-It—output MacPaint pictures on a range of colour plotters
MyDiskLabeller—produce professional disk labels. Colour and B&W versions available
Disk Labels—216 labels for Imagewriter or LaserWriter
Quick & Dirty Utilities Volumes I & II—two valuable collections of Mac utilities
Daykeeper Calendar—helps you organise your day
SideKick 2.0—the ultimate business desktop organiser. Indispensable!
Rotate—allows full rotation of objects & fonts

Business Software:

HyperNet—full networking facilities and print spooling for your Mac with HyperDrive
dMacIII—Mac version of the renowned dBaseIII relational database
LAST General Ledger—with bank reconciliation and full reporting
LAST Sales Ledger—a complete debtors package
LAST Purchase Ledger—a complete creditors package
LAST Sales Invoicing—links to Sales Ledger to produce all sales documentation
LAST Stock Control—standalone or integrate with other modules for a total stock control system
LAST Invoice & Statement Paper—each box contains 1000 forms
LAST Hotline Support—support for your LAST products for one year
BottomLine V—financial modelling spreadsheets for use with Excel or Jazz
Reflex—Relational database
The Consultant—Ideas Processor
WormStat—Statistical Analysis
Project Planner—job costing for solicitors, accountants, Ad. agencies, etc.

Graphics & CAD:

McCAD Printed Circuit Board Design—design up to six-layer boards with silk screen
McCAD SMT/PCB Design—as above plus surface-mounted components
McCAD Schematics—design electronic circuits and pass data to PCB design packages
MGM Station—a hot new CAD package!
Phoenix 3D—the most powerful 3D drawing package in its price range
MacDraft V1.2—a powerful and versatile drawing package
Planit—complete kitchen design system
MacCAD templates—for a variety of design applications:

- Commercial Architectural Design
- Electrical/Electronic Design
- Mechanical Design
- Ruled Isometrics with Ovals
- Domestic Architectural Design
- Drafting Toolkit
- Printed Circuit Board Design
- Flow Charts and Logic
- Layout Planner
- Single Line Orthographic
- Double Line Orthographic
- Single Line Isometric Piping

Programming Languages:

Mac 'C'—a full implementation of K&J 'C'
MacModula-2—a full implementation of Wirth Modula
TML Pascal—a complete native code Pascal compiler
TML Toolkit—New!
MiniEdit—New!
MacExpress—New!
Turbo Pascal—New! from Borland

Desktop Communications:

MacDasher—a full Data General D210 Terminal emulator

inTalk—previously inTouch. Supports a wide range of file transfer methods

Tekalike Macintosh—emulate Tektronix 4000 series, VT-100 & VT-640 graphics terminals

Mouse Exchange Terminal—a simple, yet sophisticated terminal emulator

LaserWriter Fonts:

Headline Fonts—new from Telegraphics

MicroFonts Laser Writer Font Modifier—

expand & condense LaserWriter fonts

Laser Fonts-10 Pack—great value! a collection of the fonts below:

- Willamette Laser Font
- Styx Laser Font
- Thames Laser Font
- Congo Laser Font
- Devoll Laser Font
- Spokane Laser Font
- Cumberland Laser Font
- Neosho Laser Font
- Trent Laser Font
- Manistee LaserFont
- Columbia LaserFont
- Yukon Laser Font
- Hudson Laser Font
- Potomac Laser Font
- Colorado Laser Font
- Seine Laser Font
- Shadow Effects Laser Font
- Symbols+ Laser Font

Also available separately.

Foreign Language Fonts:

- SuperGreek & Laser Greek Fonts
- MacHebrew
- MacKana & Basic Japanese Kanji
- MacKorean
- MacCyrillic & Laser Cyrillic
- Super French, German, Spanish
- MacArabic & Farsi
- MacSemitic, Copic, Devanagari

Mac Phonetics—phonetic alphabets

TECH font—over 1300 scientific symbols

Education & Entertainment:

Studio Session—a music composition and playback system

Grey Paint—a 300 dpi painting package with eight levels of Fatbits

MacMovies—produce moving pictures

Smoothtalker—give your Mac the 'Freedom of Speech'

Talking Notebook Series—let your Mac help your kids learn (with synthesised speech):

- Speller Bee
- Kid Talk
- Math Talk
- First Shapes

Kids Time—educational games for age 3-8

Concertware—a complete music package

- MIDI option adds the capacity to connect to MIDI musical instruments
- Terpsichore—Renaissance/Baroque
- Music—five volumes of music

LOC—a sophisticated game of strategy

MacType—a complete typing tutor

WordPlay—the tools to solve word puzzles

MathFlash—a great way to learn maths

101 WAYS TO STRETCH YOUR MACINTOSH.

Next to the telephone, your Macintosh is probably the most valuable piece of equipment in your office. But without the right software and peripherals, even a Macintosh is nothing more than an oversized paperweight. That's where SYMBIOTIC can help you.

SYMBIOTIC distributes a complete range of local and imported hardware and software to allow your Macintosh to achieve its full potential. Each product has undergone stringent testing to ensure its performance and reliability.

Whatever your requirements—for business, desktop publishing, entertainment, or hundreds of other applications—SYMBIOTIC has the software you need.

And in hardware expansion, SYMBIOTIC offers a complete range of peripherals to give your Mac the muscle it needs to perform.

If you would like to know more about the SYMBIOTIC range, contact any of our Authorised Dealers or write to us for a free copy of *The Mac Workout Book*.

**Let us show you how to
really stretch the performance
of your Macintosh.**

SYMBIOTIC

COMPUTER SYSTEMS

P.O. Box 412 Camberwell
Victoria 3124 Australia
Telephone: (03) 882 2248
Telex: AA 154313 SYM

Baud Rate: Up to 19200
 Price: \$375.00
 Supplier: Kowhai Systems

Relay/VM

Relay/VM ensures flawless uploading and downloading of any kind of data with a mainframe, including 1-2-3, wordprocessing, VisiCalc or even COM files. This product allows you to connect as many terminals as you wish to your mainframe without each PC having to have its own expensive IRMA board.

PCs: IBM 370 mainframe CPU or compatible

Op. Sys.: VM

Price: \$US 5000.00

Supplier: Kowhai Systems

Supercom Communication Software

Menu driven; Viatel-Minerva compatible; emulates over 40 terminals; supports autodialling for 'smart' and many 'dumb' modem (via DTR dialling); Ymodem and Modem 7 protocol supported for file transfer; 'Photostat' facility runs popular IBM PC software remotely; 'Script' facility for unattended information gathering; Full DOS support.

PCs: IBM PC

Op. Sys.: PC/MS-DOS

Baud Rate: 75 to 38400 baud

Other Req.: CGA, MGA, EGA Display card.

Price: \$199.00 including tax

Supplier: Dick Smith Electronics Pty Ltd

Supercom Executive

Features of this software are: allows your PC to emulate a m/frame terminal (Async emulation) providing file transfer protocols; capturing and dumping ASCII text; also allows Viatel emulation and extensive script command files. In 'photostat' mode it allows full operation of another PC in a remote site. It supports 80 x 25 text, 320 x 200 graphics and 640 x 200 graphics programs.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 2.0 and higher

Memory: 256k

Storage Req.: 150k

Baud Rate: 50 - 38.4kbps

Price: \$199.00

Supplier: Triumph Adler

PC Extras Pty Limited

Symphony Link

Symphony Link is a full featured synchronous communications package for use in the IBM network environ-

ment. It uses standard Symphony conventions and allows two-way transfer of data between a personal computer running Symphony and an IBM host computer in the 3270 environment.

PCs: IBM PC/XT/AT & compatibles,

Compaq

Op. Sys.: PC/MS-DOS 2.0, 2.1, 3.0

Memory: 512k

Price: \$1292.00 including tax

Supplier: Imagineering

TTY Communications

Allows PC to communicate with and perform file transfer between similarly equipped machines. The data is transmitted bisynchronously.

PCs: IBM PC/XT/AT & compatibles

TIPC TIBP

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 128k

Storage Req.: 360k

Baud Rate: to 19,200

Other Req.: Comms cord (serial port)

Price: P O A

Supplier: Texas Instruments Australia Limited

Telecommunications Operating System

TOS is a software based message switching system, providing an external gateway to telex and private data networks. Prime & VAX incorporate electronic mail facility. PC versions can also act as a front-end to other host systems, and also be part of a local area network.

PCs: Prime, Digital VAX, IBM PC & compatibles

Op. Sys.: Primos, VMS, PC/MS-DOS

Memory: 256k

Storage Req.: 10Mb Prime/VAX, 360k

DOS

Other Req.: RS232C serial ports - all systems

Price: \$2900.00 - \$5000.00

Supplier: Offcom Pty Limited

Tosbox

Tosbox is a standalone intelligent store and forward message/data switching system, which can also be configured to front-end most WP/DP systems as well as convert to LANs.

Baud Rate: 300 to 9600

Other Req.: Telex and/or data line.

Price: \$6500.00 - \$8500.00

Supplier: Offcom Pty Limited

Upstart

Cybersoft's Upstart can be used to ac-

cess most "text" information services, bulletin boards, financial information services, even the New York Stock Exchange. It also features appointments calendar, alarm clock, calculator, business card file and a telephone dialler. Upstart is memory resident but can be run as a normal program if desired, and it features help and terminal windows, autodial function and Hayes compatibility.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 256k

Storage Req.: Dual floppy

Price: \$99.00 ex tax

Supplier: Arcom Pacific

Vidterm

Vidterm allows connection of an IBM-PC to any Prestel-standard videotex service, Bulletin Boards, Minerva, Telememo, etc. Up to 10 services can be stored, with one key autodialling. Transmit files via XMODEM and ASCII methods. Context sensitive help, telesoftware download, a powerful command file language, local editing and carouselling, page storage unlimited and frame printing are some features.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 1.0-3mm

Memory: 256k

Storage Req.: 1 x 360k floppy

Baud Rate: 1200/75, 300-9600

Other Req.: RS232 port, modem, colour monitor, graphics adaptor

Price: \$299.00 ex tax, \$336.00 including tax

Supplier: Syscorp Pty Limited

in Talk

Used extensively in Apple offices in the U.S., in Talk is a powerful communications product incorporating its own command language. The program supports a variety of file transfer methods, such as XModem, MacBinary, and Kermit protocols, in addition to standard text operation. With in Talk you may also set up macro keys, which execute common function such as logging on to a remote service.

PCs: Macintosh

Price: \$244.00

Supplier: Symbiotic Computer Systems

ABE Maxwell 5 kit modem

This kit modem may be bought built and tested. It features 'Bell' standard and automatic dialling, answering and origination of calls. It uses an internal battery and has 10 indicator LEDs. It provides synchronous and asynchronous communications.

Baud Rate: 300 - 2400, 1200/75

Price: \$213.00

Supplier: ABE Computers

ABE Model 1 kit modem

This kit modem may be bought built and tested. It can automatically originate calls and is powered by a battery. It provides synchronous and asynchronous communications.

Baud Rate: 300 and 1200/75

Price: \$495.00

Supplier: ABE Computers

Apple 1200

This modem can be mounted in the 5^{1/4}" drive position. It provides automatic dialling, answering and origination of calls. It has an internal battery for a power supply. It provides asynchronous and bisynchronous communications.

Baud Rate: 300 and 1200/75

Price: \$431.00

Supplier: ABE Computers

Automatic Ice AP2

The AP2 provides bell standard, automatic answering, dialling, redialling speed sensing and origination of calls. It has a directory for storage of commonly called phone numbers. It provides asynchronous communications.

PCs: Apple II, IIGS

Baud Rate: 300, 1200 and 1200/75

Price: \$200.00

Supplier: ABE Computers

Automatic Ice Company

Automatic Ice Co Card Modem

A card modem which fits entirely within the Apple II, IIe & IIGS computers. Fully autoanswer, autodial and autospeed search with software permanently in EPROM. It contains a battery backed calendar clock which is recognized by Prodos, 2k battery backed memory stores phone numbers and logon strings. Acts as a full Viatel terminal with full wordprocessing, printing

and saving to disk.

PCs: Apple II, IIe, IIGS

Op. Sys.: DOS 3.3, PRODOS

Baud Rate: 300/300, 1200/75, 75/1200

Price: \$299.00

Supplier: Automatic Ice Company

Avtek Mega Modem

The Avtek Mega Modem allows communication between all types of computers over a telephone line. Avtek are an Australian manufacturer and have a range of modems which have Telecom approval. The Mega Modem has inbuilt Hayes protocol and also features a unique password system.

PCs: Any machines with an RS232C port

Memory: 64k

Baud Rate: 300 - 2400

Price: \$349.00 to \$749.00

Supplier: Electronic Solutions Pty Ltd

Black Box Catalog 1200A

This external Hayes compatible modem provides automatic origination, answering, dialling of calls and automatic speed sensing. It has internal help functions and runs on a battery. It provides synchronous and asynchronous communications.

Baud Rate: 1200

Price: \$424.00

Supplier: ABE Computers

Black Box Catalog 1234SA

This bell standard internal modem provides asynchronous communications at 300, 1200 full duplex and 1200/75 bits per second. It automatically originates, dials and answers calls and senses the transmission speed required.

Baud Rate: 300, 1200 and 1200/75

Price: \$179.00

Supplier: ABE Computers

Black Box Catalog 123SA

This is a kit modem which can be bought already built and tested. It provides asynchronous communications and features automatic speed sensing, dialling, answering and origination of calls.

Baud Rate: 300, 1200 and 1200/75

Price: \$285.00

Supplier: ABE Computers

Black Box Catalog 21/23

This is a kit modem that may be bought already built and tested. It provides automatic origination, dialling and answering of calls. It runs on a battery.

Baud Rate: 300 and 1200/75

Price: \$357.00

Supplier: ABE Computers

Black Box Catalog 2400A

This Hayes compatible modem provides asynchronous and synchronous full duplex communications at 1200 and 2400 bits per second. It automatically originates, dials and answers calls and features automatic speed sensing.

Baud Rate: 1200 & 2400 full duplex

Price: \$466.00

Supplier: ABE Computers

Black Box Catalog PC123

This Hayes compatible modem provides synchronous and asynchronous communications. It automatically originates, answers and dials calls and senses the transmission speed required. It runs on a battery.

Baud Rate: 300, 1200 and 1200/75

Price: \$495.00

Supplier: ABE Computers

Black Box Catalog PC1234

This Hayes compatible kit modem provides synchronous and asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed of incoming data. It runs on an internal battery. It can be bought already built and tested for \$696.00. An internally mounted version retails for \$1175.00.

Baud Rate: 300 - 2400 and 1200/75

Price: \$617.00

Supplier: ABE Computers

Datacraft Direct Marketing

Black Box Catalog PC21/23

This internal Hayes compatible modem provides asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed required. It runs on mains power and can fit in a 5^{1/4}" disk drive slot. A version which

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supports PABX switchboards and videotex and comes with videotex and TTY software is available from Datacraft for \$377.00.

Baud Rate: **300 and 1200/75**

Price: **\$95.00**

Supplier: **ABE Computers**

CASE 1212

Baud Rate: **1200 bps**

Price: **\$595.00**

Supplier: **Case Communication Systems Limited**

CEDATA 1-2-3

This Hayes compatible modem provides asynchronous communication. It automatically originates and answers calls.

Baud Rate: **1200, 2400 full duplex**

Price: **\$685.00**

Supplier: **Datacraft Direct Marketing**

CEDATA 2123

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates and answers calls.

Baud Rate: **300, 1200 half and full duplex, 1200/75**

Price: **\$1095.00**

Supplier: **Datacraft Direct Marketing**

CEDATA 2123AD

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials and answers calls. It runs on mains power and comes with Videotex software and an RS232 tester. The 2123B is similarly featured and retails for \$959.00

Baud Rate: **300, 1200 and 1200/75**

Price: **\$443.00 including tax**

Supplier: **Datacraft Direct Marketing**

CEDATA 2301

Cedata is Hayes compatible, providing asynchronous communication. It automatically originates and answers calls and senses the transmission speed required. It runs on an internal battery.

Baud Rate: **300**

Price: **\$884.00**

Supplier: **Datacraft Direct Marketing**

COMODEM

Includes Viatel and terminal software on disk or tape.

PCs: **Commodore 64, 128**

Baud Rate: **300/300, 1200/75**

Price: **\$249.00**

Supplier: **Computermate Products (Aust) Pty Limited**

CTS 2424

Baud Rate: **2400bps/1200bps**

Price: **\$895.00**

Supplier: **Case Communication Systems Limited**

Case 400/22B

This modem provides synchronous and asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed of incoming data. It runs on mains power and will function with PABX switchboards.

Baud Rate: **1200 and 2400**

Price: **P O A**

Supplier: **Case Communication Systems Limited**

Case 9629

This modem provides asynchronous communication. It runs on an internal battery and has a speaker. It supports connection to PABX switchboards. It provides error detection and has Videotex and communications firmware in EPROM.

Baud Rate: **4800, 9600**

Price: **\$299.00**

Supplier: **Automatic Ice Company**

Case RV22B

The Case RV22B is Hayes compatible, providing asynchronous communication. It automatically originates and answers calls and senses the transmission speed required.

Baud Rate: **1200, 2400 full duplex**

Price: **\$685.00**

Supplier: **Datacraft Direct Marketing**

Cicada 300

This modem provides asynchronous communication and automatically originates calls. It runs on mains power.

Baud Rate: **300**

Price: **\$130.00**

Supplier: **Centre Industries**

Cicada 312 Data Modem

Cicada 312 is a compact inexpensive modem for use with most PCs and terminals to access normal information services and Videotex. A PC software package to allow auto dialling into Viatel, etc., can be bundled with the unit at low cost.

Baud Rate: **300/300, 1200/75**

Price: **\$245.00**

Supplier: **Shuttle Datacomm Pty Limited Centre Industries**

Concord V22

This modem provides synchronous and asynchronous communication. It automatically originates and dials calls and senses the transmission speed of incoming data. It runs on mains power and will function with PABX switchboards.

Baud Rate: **300 and 1200**

Price: **\$695.00**

Supplier: **Datacraft Direct Marketing**

Concord V22 Bis

This modem provides synchronous and asynchronous communication. It automatically originates and answers calls and senses the transmission speed of incoming data. It runs on mains power.

Baud Rate: **300 - 2400**

Price: **\$995.00**

Supplier: **Datacraft Direct Marketing**

DSE Dataphone 1200 Direct Connect Modem

The Dataphone 1200 is compatible with Australian bulletin boards and with suitable software is Viatel compatible. Telecom Australia Authorisation C85/37/1353, 300 baud (full duplex)(V21)1200/75 and 600/75(V23), auto-answer.

PCs: **DSE-Multitech, Bondwell 14**

Op. Sys.: **PC/MS-DOS, CP/M**

Other Req.: **RS232C port**

Price: **\$349.00**

Supplier: **Dick Smith Electronics Pty Ltd**

DSE X3301 Dataphone 300

This modem provides communication. It automatically originates, calls and runs on mains power.

Baud Rate: **300**

Price: **\$199.00**

Supplier: **Dick Smith Electronics Pty Ltd**

Data Bridge DSP 1200, 2400, 123, 1234

Modem features full Hayes Smartmodem compatibility, auto dial, auto answer, 15 telephone number memory, secure callback, remote configuration, high performance, powerful TMS32010 based receiver, ergonomic, office styling. Win-

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ner of Australian Design Award.
 Baud Rate: 75 - 2400
 Price: P O A
 Supplier: Data Bridge Electronic

Datacraft DCF-5096

This modem provides synchronous and asynchronous communication. It automatically originates, dials, answers and redials calls and senses the transmission speed of incoming data. It runs on mains power.
 Baud Rate: 2400 - 9600
 Price: \$2002.00
 Supplier: Datacraft Direct Marketing

Dataplex DPX-215

This modem provides synchronous and asynchronous communication. It runs on mains power and features 19.2kbps surge suppression.
 Baud Rate: 300 - 9600 full duplex
 Price: P O A
 Supplier: Dataplex

Dataplex DPX-224

The Dataplex DPX-224 is Hayes compatible, providing synchronous and asynchronous communication. It automatically originates, dials, answers and redials calls and senses the transmission speed required. It runs on mains power and will function with PABX switchboards. A battery powered version is available as the DPX-24/PC for \$1500.00.
 Baud Rate: 300 - 2400 and 1200/75
 Price: \$1680.00
 Supplier: Dataplex

Dataplex DPX-296

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates, dials, answers and redials calls and senses the transmission speed required. It runs on mains power and performs speed conversion and data compression and can automatically logon.
 Baud Rate: 1200, 4800 and 9600 full duplex
 Price: \$3603.00
 Supplier: Dataplex

Dowty Information SB-321

This modem provides asynchronous communication and automatically originates calls. It runs on mains power and will function with PABX switchboards.
 Baud Rate: 300
 Price: \$234.00

Supplier: Case Communication Systems Limited

Dowty Information Systems SB-1223

This modem provides asynchronous communication. It automatically originates calls, runs on mains power and will function with PABX switchboards.
 Price: \$354.00
 Supplier: Case Communication Systems Limited

Evercom EV-920

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials, answers and redials calls and senses the transmission speed required. It runs on an internal battery and provides automatic data to voice transition. Currently being tested for approval by Telecom.
 Baud Rate: 300, 1200
 Price: P O A
 Supplier: Pericom

Express 12/Secure 12 Data Modem

Express 12 is an intelligent V.22 compatible auto dial, auto answer modem, Hayes compatible, with built in speaker and ten phone number memories. Secure 12 is the same modem with built in two level security password and callback protection instead of the ten number memory.
 Baud Rate: 1200/1200
 Price: \$890.00 to \$930.00
 Supplier: Shuttle Datacomm Pty Ltd

GPA Supermodem

The GPA Supermodem is totally Australian designed and manufactured. Features: Auto dial, Auto answer, Auto ranging, auto disconnect, Telecom approved, expandable. V22 1200/1200 option available for \$190.00. Bell standards also supported.
 PCs: Any
 Baud Rate: 1200/1200, 1200/75, 300/300
 Other Req.: RS232 Port.
 Price: \$395.00 (Base), \$585.00 (W/V22)
 Supplier: Micro-Educational

Intelligent PC Card Modem

The Data Sat VTEX CARD Modem - a half sized card that supports 300 (full duplex) and 1200/75 or 75/1200 (full bu-

ferred constant speed interface at 1200 full duplex). It has a Hayes compatible, autodial, answer and disconnect command structure. The unit is available complete with Neologue's VTEX/2 as a Videotex kit for the PC.

PCs: IBM PC & compatibles
 Op. Sys.: PC/MS-DOS
 Memory: 256k
 Storage Req.: 360k floppy
 Baud Rate: 300 and 1200
 Other Req.: Telephone outlet.
 Price: \$450.00 including tax
 Supplier: Data Sat Australasia Pty Ltd

Intelligent VTEX Desktop Modem

This product is the companion of the Data Sat PC Card Modem and has all the same features but is designed for computers not supporting the IBM PC card concept; and as such is a compact desktop unit. The unit is available with Neologue's VTEX/2 and cables as a Videotex kit for most MS-DOS computers.
 PCs: Wang PC
 Op. Sys.: PC/MS-DOS
 Memory: 256k
 Storage Req.: 360k
 Baud Rate: 300 and 1200
 Price: \$540.00 including tax
 Supplier: Data Sat Australasia Pty Ltd

Interlink 1200 External Modem

This modem operates at 1200/75, 1200 full duplex and 300 full duplex. It has auto answering and dialling facilities.
 PCs: IBM PC/XT/AT & compatibles
 Baud Rate: 1200 and 300
 Price: \$890.00
 Supplier: Eastern Micro Electronics

Interlink 300 External Modem

This is an external manual modem which comes equipped with Videotex software. Exclusive to EME.
 PCs: IBM PC/XT/AT & compatibles, Apple
 Baud Rate: 1200/75, 300
 Price: \$400.00
 Supplier: Eastern Micro Electronics

Interlink 300 Internal Modem

This is an internal modem which has automatic answering and dialling facilities; comes equipped with free Videotex

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EC-7090 MINI-AT SYSTEM Specification

- Mainboard
CPU: 80286 (6/10 MHz switchable)
Coprocesor: 80287 (optional)
Slot: 8
RAM: 512KB expandable up to 1MB
BIOS: Award
- Floppy Drive: 1.2MB FDD x 1
(Japan made)
- Power Supply: 200W 110/230V
- Keyboard: 101 Keys
- Adapter: HDD/FDD controller (WD chip)
Parallel/Serial card
EGA card (optional)
- O.S.: MS-DOS 3.2 & manuals



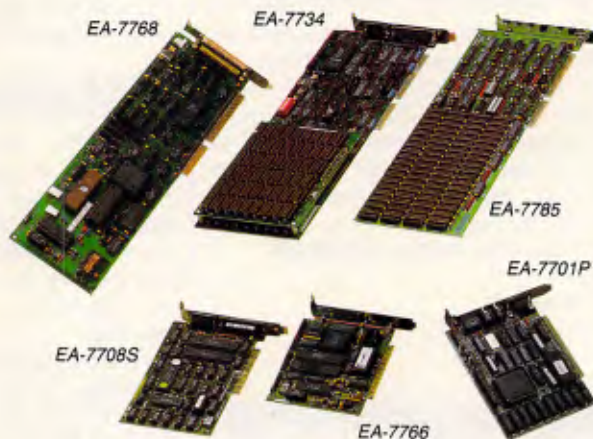
SM-24	BELL 103, 212A/CCITT V.22, V.22BIS (EXTERNAL)	SM-120	CCITT V.21, V.22/BELL 103, 212A (EXTERNAL)
SM-24PC	BELL 103, 212A/CCITT V.22, V.22BIS (INTERNAL)	SM-120H	CCITT V.21, V.22/BELL 103, 212A (INTERNAL)

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EA-7708S
MGP CARD

EA-7766
HDC CARD

EA-7701P
HEGA CARD

software.

PCs: IBM PC/XT/AT & compatibles

Baud Rate: 1200/75, 300

Price: \$500.00

Supplier: Eastern Micro Electronics

Interlink A-12/75-X

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials and answers calls. It runs on mains power and will function with PABX switchboards.

Baud Rate: 300 and 1200/75

Price: \$450.00

Supplier: Interlink

Le Modem

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed of incoming data. It runs on an internal battery and will function with PABX switchboards.

Baud Rate: 300

Price: \$425.00

Supplier: Imagineering

Lightning 24/Secure 24 Data Modem

Lightning 24 is a V.22 intelligent modem with auto dial/auto answer, Hayes compatibility and asynchronous/synchronous operation. Secure 24 is the same basic modem with built in two level security password and callback protection.

Baud Rate: 1200/1200, 2400/2400

Price: \$895.00 to \$1250.00

Supplier: Shuttle Datacomm Pty Limited

M232

Single channel RS232 modem, powered from the RS232 data & handshake lines. Enables asynchronous serial data transfers between devices up to 2km apart at up to 100k/second. Immune to earth loop or other electrical problems. The M232 modem plugs directly to the 25way 'D' connector on your device. Both male and female units are available.

PCs: Various

Baud Rate: DC - 100k/s

Price: \$300.00

Supplier: Integral Fibre Systems Pty Limited

MX422

Single channel RS422 modem. Synchronous to 2.5M bits/second. Asynchronous to 10M bits/second. Operates over a link length of up to 3.5Km

using 50/125 multimode fibre. SMA style optical connectors fitted as standard.

PCs: Various

Baud Rate: To 10mbits/sec

Price: \$1200.00

Supplier: Integral Fibre Systems Pty Limited

Master Systems UKMS 9600

This modem provides synchronous communication. It runs on mains power and provides V27/29 fall back.

Baud Rate: 2400 - 9600

Price: \$2340.00

Supplier: Case Communication Systems Limited

Microbee Automodem

A low cost direct connect modem offering autodial and autoanswer, plus dual

300/300 and 1200/75 bps operation. Telecom approved and fully compatible with Microbee Telcom II and Videotex communications software.

PCs: Microbee, Mitac Portable PC

Op. Sys.: CP/M, PC/MS-DOS

Baud Rate: 300/300, 1200/75

Other Req.: Comms software capable of direct-line dialling.

Price: \$279.00

Supplier: Microbee Systems Limited

Micromodem III

A low cost modem, direct connect, Telecom approved and manufactured in Australia. Designed to complement '64 talk' software.

PCs: Commodore 64 & 128

Baud Rate: 300/300, 1200/75

Price: \$299.00

Supplier: Acme Software

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Micromodem V

An auto-dial, auto-answer, Hayes compatible, smart modem. It is supplied with communications software for Commodore Amiga to handle ASCII and Videotex communications.

PCs: **IBM PC or Amiga**

Baud Rate: **300/300, 1200/75**

Other Req.: **RS232 cable**

Price: **\$599.00**

Supplier: **Acme Software**

Model CPU-100 Radio Data Modem Series

The CPU-100 series of RDM's are designed to provide data communications, in conjunction with a suitable radio system, for applications where phone modems cannot be used. For example, from a host computer to a vehicle or fleet of vehicles.

Range can be anywhere from a few hundred metres up to thousands of kilometres depending on the radio system used.

PCs: **Digital Systems**

Memory: **8k**

Baud Rate: **DTE 50 - 19.2k, Link 1200**

Other Req.: **12 volt DC or 240 volt AC operation.**

Price: **\$1450.00**

Supplier: **GFS Electronics**

Modem 64/128

This modem provides asynchronous communication. It automatically originates, dials, answers and redials calls and senses the transmission speeds required. It runs on an internal battery. A bell standard internal modem (PC IN MODEM) with very similar features retails for \$615.00.

Baud Rate: **300 and 1200/75**

Price: **\$341.00**

Supplier: **Netcomm (Australia) Pty Ltd**
Pacific Data Corporation

Modem phone

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials, answers and redials calls and senses the transmission speed required. It runs on mains power and comes complete with a handset.

Baud Rate: **300 and 1200**

Price: **P O A**

Supplier: **Atlantis International Computers**

Netcomm 1200

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates, dials and answers calls, and senses the transmission speed required. An internal and external version of this modem is available. The internal version runs on a battery and costs \$786.00, the external version runs on mains and costs \$834.00.

Baud Rate: **300 and 1200**

Price: **\$786.00 (int); \$834.00 (ext)**

Supplier: **Netcomm (Australia) Pty Ltd**
Pacific Data Corporation
Rosser

Netcomm 123

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed required. It runs on an internal battery and fits inside the PC case.

Baud Rate: **300, 1200 and 1200/75**

Price: **\$1140.00**

Supplier: **Netcomm (Australia) Pty Ltd**

Netcomm 1234

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials and answers calls, senses the transmission speed of incoming data and functions on PABX switchboards. The internal version runs on an internal battery and sells for \$1125.00. The external version uses mains power and costs \$1445.00.

Baud Rate: **300 - 2400 and 1200/75**

Price: **\$1125.00 (internal); \$1445.00 (external)**

Supplier: **Netcomm (Australia) Pty Ltd**
Rosser

Netcomm 9648 FT

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates, dials and

COMTEST TM applied for

Data communications testers becoming an industry standard. Designed and priced to be **Datacomm tools** for computer engineers, system managers and salesmen. Practical teaching aids for uni professors and students.

COMTEST V.24

Price: **\$315 incl Sales Tax**



A complete RS232/V.24 tester:

- Breaks and redirects all 25 lines
- Tri-state monitoring of all signals
- Open Circuit Voltage test (2 levels)
- Current Loop Test (4 levels)
- Pocket size, no batteries

COMTEST X.21

Price: **\$495 incl Sales Tax**



A complete X.21 (comprising X.20 & X.22) tester, fully compatible with RS422-423/V.10-11 interface and X.26-X.27 electrical standards.

- Breaks and redirects all lines
- Tri-state monitoring of all signals
- Open Circuit Voltage test
- Impedance Test
- 2 additional line monitors
 - fixed level
 - 6 level with pulse trap and audible signalling
- RS232 adapter

Every tester comes with a carrying pouch and a set of jumpering cables.

Exclusive distributor:

TESTRONIC (formerly MOTIVATION PLUS)

3 Montana Ave, North Rocks, NSW 2151.

Tel: (02) 630 7528 or 630 8170. Fax: (02) 29 2161.

Dealer enquiries welcome.

answers calls and senses the transmission speed required.

Baud Rate: **4800 and 9600**

Price: **\$2887.00**

Supplier: **Netcomm (Australia) Pty Ltd**

Rosser

Pacific Data Corporation

Netcomm Automodem 3 + 12

This modem provides asynchronous communication. It automatically dials calls and senses the transmission speed of incoming data. A model without the automatic dialling (modem 3 + 12) is available for \$341.00.

Baud Rate: **300 and 1200/75**

Price: **\$565.00**

Supplier: **Netcomm (Australia) Pty Ltd**

Pacific Data Corporation

Netcomm Datalock 123SA

This Hayes compatible modem provides synchronous and asynchronous communication. It automatically originates, dials and answers calls, provides call back security and senses the transmission speed of incoming data. It functions on PABX switchboards.

Baud Rate: **300, 1200 and 1200/75**

Price: **\$1005.00**

Supplier: **Netcomm (Australia) Pty Ltd**

Netcomm Sharp PC Internal modem

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed of incoming data. It runs on an internal battery.

PCs: **Sharp PC 7000 portable PC**

Baud Rate: **300 and 1200/75**

Price: **\$599.00**

Supplier: **Netcomm (Australia) Pty Ltd**

Netcomm Smart modem series

These Hayes compatible modems provide synchronous and asynchronous communication. They all automatically originate, dial, answer and redial calls and sense the transmission speed of incoming data. They are external modems running on mains power. The Smart modem 21/23A/SA provides dual back security. It is a 300, 1200 and 1200/75bps modem and retails for

\$677.00.

Baud Rate: **Full range**

Price: **\$677.00 - \$3300.00**

Supplier: **Netcomm (Australia) Pty Ltd**

Netcomm Trailblazer

This Hayes compatible modem provides asynchronous communication. It automatically originates, dials and answers calls and senses the transmission speed of incoming data. The internally mounted model runs on an internal battery.

Baud Rate: **1200 - 9600**

Price: **\$3248.00 internal and \$3468.00 external**

Supplier: **Netcomm (Australia) Pty Ltd**

Nice Modem I

This modem provides synchronous and asynchronous communication. It runs on an internal battery.

PCs: **Commodore 64**

Baud Rate: **300 and 1200/75**

Price: **\$279.00**

Supplier: **The Nice Computer Company**

Nice Modem Two

An Australian designed and manufactured simple-to-use modem with Telecom Authorisation. Fully instrumental stylish metal case, with a friendly manual. Automatic dialling, answering, disconnection, baud-rate selection (and conversion) and high technology ring-back security. Speeds of 300/300, 1200/75 and 1200/1200 for both USA and world standards.

Price: **\$699.00**

Supplier: **The Nice Computer Company**

Pulsar Sam Modem

A general purpose modem which is Hayes compatible and has numerous features including autodial - autoanswer - autodisconnect and dialback security with password protection.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS, Xenix**

Baud Rate: **V21, V22, V23**

Price: **\$845.00 including tax**

Supplier: **Pulsar Electronics Pty Ltd**

Quattro

Automatic speed selection, error correction, dial back.

Baud Rate: **2400, 1200, 75/1200, 300**

Price: **\$1450.00**

Supplier: **Case Communication Systems Limited**

SMARTEAM 1200 modems

These Hayes compatible modems provides asynchronous communication. They automatically originate and answer calls. They run on mains power. The 1200 CT provides auto dialling as well.

Baud Rate: **300 and 1200 full and half duplex**

Price: **\$700.00 AT; \$750.00 CT**

Supplier: **ABE Computers**

Scitec 2123 Videotex Modem

Scitec's 2123 Videotex modem allows a PC to communicate with videotex, remote PC's, databases and bulletin boards. It is Hayes compatible and features automatic dialling, answering and disconnection. It provides communications at 300bps full duplex; 75/1200 - 1200/75bps, half duplex; 1200bps half duplex.

Baud Rate: **300 - 1200**

Price: **P O A**

Supplier: **Arcom Pacific**

Scitec Business 2400a Modem

SCITEC's 2400a modem is designed for high-speed communications. It is Hayes compatible and features automatic speed recognition, dialling, answering and disconnection. It provides communications at 1200bps full duplex; 2400bps full duplex.

Baud Rate: **1200/2400**

Price: **P O A**

Supplier: **Arcom Pacific**

Scitec Business Olympic Modem

Scitec's Olympic Modem - is a very comprehensive modem. It is Hayes compatible and features speed recognition, dialling, answering and disconnection. It provides communications at 300, 1200 and 2400bps full duplex; 75/1200 - 1200/75bps half duplex.

Baud Rate: **300 - 2400**

Price: **P O A**

Supplier: **Arcom Pacific**

Scitec Business Tristar Modem

Scitec's Tristar Modem is a high performance three speed modem. It is Hayes compatible and features automatic speed recognition, dialling, answering and disconnection.

nection. It provides communications at 300bps full duplex; 75/1200 - 1200/75bps half duplex; 1200bps full duplex.

Baud Rate: **300 - 1200/75**

Price: **P O A**

Supplier: **Arcom Pacific**

Sendata 1275

300 baud full duplex, 1200/75 Viatel. Manual operation.

Baud Rate: **300, 1200/75**

Price: **\$295.00**

Supplier: **Super-PC**

Sendata Quad Modem

The Quad Modem clearly and simply instructs the user via a 16 x 2 line LCD display. It also features dial back security to block 'hackers'. It can store and display passwords, preprogrammed logons and up to 100 phone numbers in a battery backed up memory. An internal version (without LCD display) is also available for \$1380.00.

Baud Rate: **2400, 1200, 300, 1200/75**

Price: **\$1450.00**

Supplier: **Sendata Pty Limited**

Sendata V21

The entry level modem in Sendata's range. Simple switching between phone and modem. An automatic answer/disconnect model is available and retails for \$300.00.

Baud Rate: **300**

Price: **\$200.00**

Supplier: **Sendata Pty Limited**

Sendata V22 Modem

This 1200 bps full duplex auto answer/disconnect modem is ideal for business use and database access. An autodial version of this model is available for \$880.00.

Baud Rate: **1200**

Price: **\$660.00**

Supplier: **Sendata Pty Limited**

Sendata V22BIS

A high speed modem providing communication at 2400 bps, full duplex with automatic fallback to 1200 bps. An internally mounted version of this retails for \$1180.00.

Price: **\$1240.00**

Supplier: **Sendata Pty Limited**

Sendata Videotex

Switchable between 300 baud and Videotex (1200/75) speeds this modem is suitable for accessing Videotex, bulletin boards and databases. An automatic answer/disconnect model and an internal

model are also available. The internal model includes communication software and costs \$550.00.

Baud Rate: **300, 1200/75**

Price: **\$260.00**

Supplier: **Sendata Pty Limited**

Shuttle 123 Data Modem

Shuttle 123 is a multi-standard, multi-speed, auto dial, auto answer modem including built-in speaker and V.23 baud rate converter. Auto speed detection is also standard. Options include synchronous and battery operation.

Baud Rate: **300/300, 1200/75, 1200/1200**

Price: **\$998.00**

Supplier: **Shuttle Datacomm Pty Limited**

Shuttle 312AD Data Modem

Shuttle 312AD is an auto dial/auto answer Hayes compatible modem with V.21 and V.23. Also Bell operating modes, in full or half duplex. Optional versions include synchronous operation, rack mounted and battery operated units.

Baud Rate: **300/300, 1200/75**

Price: **\$594.00**

Supplier: **Shuttle Datacomm Pty Limited**

Shuttle Race - BMX Data Modem

Race BMX is a very high speed intelligent modem that provides block mode and file transfer operation over standard telephone lines with error-free throughput in the range from 1000 to over 1700 characters per second.

Baud Rate: **1200 to 19200 bps**

Price: **\$2750.00**

Supplier: **Shuttle Datacomm Pty Limited**

Shuttle Race I Data Modem

Race I is a high speed, Hayes compatible, intelligent modem with auto dial/auto answer, providing interactive operation in true full duplex mode over standard phone lines with error-free throughput from 650 (worst case) to 1400 characters per second.

Baud Rate: **1200 to 19200**

Price: **\$3250.00**

Supplier: **Shuttle Datacomm Pty Limited**

Shuttle Race II Data Modem

Race II is a high speed intelligent modem having the same features as the Race I in addition to statistically multiplexing a second, independent printer channel with the primary terminal channel on the same telephone line.

Baud Rate: **1200 to 19200 bps**

Price: **\$3700.00**

Supplier: **Shuttle Datacomm Pty Ltd**

Smart modem

This modem provides synchronous and asynchronous communication. It automatically originates and answers calls. It runs on mains power and will function with PABX switchboards.

Baud Rate: **1200/75**

Price: **\$594.00**

Supplier: **Case Communication Systems Ltd**

Super Modem 1200

Internal modem Hayes, Bell, CC ITT compatible with autodial, auto answer and full duplex operation.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Baud Rate: **300, 1200, 2400**

Price: **\$669.00**

Supplier: **Ottoman Group Pty Ltd**

Telecom 1200bps Leased Line Modem

This modem provides asynchronous communication.

Baud Rate: **1200 full and half duplex**

Price: **\$516.00**

Supplier: **Telecom Australia**

Telecom 1200bps Switched Line Modem

This modem provides synchronous and asynchronous communication..

Price: **P O A**

Supplier: **Telecom Australia**

Telecom 2.4, 4.8, 9.6, 19.2kbps modem

This modem provides synchronous and asynchronous communication. It runs on mains power.

Baud Rate: **1200 - 19200**

Price: **\$1711.00**

Supplier: **Telecom Australia**

Telecom 2400bps Leased Line Modem

This modem provides synchronous and asynchronous communication. It automatically originates, dials, answers and redials calls. It runs on mains power.

Baud Rate: 1200 and 2400

Price: \$2424.00

Supplier: Telecom Australia

Telecom 300bps Leased Line Modem

This modem provides asynchronous communication.

Baud Rate: 300

Price: \$264.00

Supplier: Telecom Australia

Trimodem

A model modem that is very flexible. 1200, 300 full duplex and Videotex speeds. Automatic answer/disconnect.

Price: \$920.00

Supplier: Sendata Pty Limited

V1275/PC

V1275/PC - low cost 1200/75 and 300/300 manual dial modem packaged with Videotex software and cables. Suits most IBM PC types.

Baud Rate: 1200/75 and 300/300

Price: P O A

Supplier: Data Sat Australasia Pty Ltd

VTEX/CARD

VTEX/CARD - Intelligent auto-dial internal modem for the IBM PC/XT packaged with Videotex and Teletype emulation software to suit all PC capabilities.

PCs: IBM PC/XT

Price: P O A

Supplier: Data Sat Australasia Pty Ltd

Vlink Keyboard Modem Model 241

The Vlink keyboard modem is designed primarily for connection to Videotex services. It features auto dial, auto log-on, Viatel compatible, RGB, composite video and RF output, parallel Centronics printer port, volatile 28 Videotex page memory, help and goto function keys, non-volatile

memory storage for phone numbers and communication protocols.

Baud Rate: 300/300 and 1200/75

Other Req.: Telephone line, power point and TV receiver (VHF).

Price: \$550.00 including tax.

Supplier: Consultech Australia Pty Ltd

Volksmodem 12 Data Modem

Volksmodem 12 is a low cost intelligent V.22 compatible modem with auto dial/auto answer and Hayes compatibility. The package includes a data cable adapted to suit most PCs and terminals.

Baud Rate: 1200/1200

Price: \$595.00

Supplier: Shuttle Datacomm Pty Ltd

XIOCON

Fully featured, Hayes compatible modem. It includes 1200, 300 full duplex speeds. Automatic dial/answer/disconnect. An internal version of this modem is also available for \$1050.00.

Baud Rate: 1200,300

Price: \$1080.00

Supplier: Sendata Pty Ltd

YOUR TOTAL SOLUTION

Not only are the Data Sat Intelligent Videotex kits packaged to provide you with a fully intelligent **VIDEOTEX SYSTEM** to suit **your** special requirements, but you also receive:

ALL THESE EXTRAS YOU NEED AT NO EXTRA CHARGE!

- **SIZE:** One half card slot or compact desktop
- **COMMS:** 16 port addresses are available
- **DATA:** ALL character formats are correctly handled
- **DIALING:** AUTO DIALING Hayes compatible
- **COMPUTER:** IBM-PC/XT/AT/JX NEC APC and compatibles

One of the most **powerful** features of the software is its easy to use **macro command** system which enables you to save a series of keystrokes or functions to the **macro sub-menu**. Tedious and time consuming manual key entries are reduced to a minimum.

For example, **at a touch** or at a pre-programmed time, you can **auto-dial** your Videotex database to logon, select the Telex option then **import** a previously prepared text file, send it as a **telex** and then save all of your personal **mail** direct to disk or have it printed out!

ALSO SUPPORTED

- TELESOFTWARE, ASCII and X-MODEM protocols
- FULL 8 COLOURS from a standard CGA card
- AUTO UP/DOWN LOAD file to file sessions at 1200 baud
- ACCESS to your PC by a remote terminal
- Telecom Direct Connect Authorised.

Dealer Enquiries Welcome

DATA SAT MODEMS — *the intelligent connection*

8 LACHLAN STREET, LIVERPOOL NSW 2170

TEL: (02) 821-1622

Ethermail Server Kit

Facilitates inter PC mailbox facilities. Mail can be sent, recieved, forwarded etc..
PCs: IBM PC/XT/AT & compatibles
Op. Sys.: PC/MS-DOS 2.1 or higher
Memory: 512k
Storage Req.: 10Mb Winchester
Baud Rate: 10Mb
Other Req.: Ethershare server software and Etherlink hardware
Price: P O A
Supplier: Texas Instruments Australia Limited

Intermail

Intermail sends messages and files between 2 or more users on a Macintosh network without requiring one Macintosh to be dedicated to handling the mail. Intermail alerts you of messages even if your machine is off. It may be used without exiting the current application. 5 versions are available starting at 2 to 4 users and going up to 21 users and over.
PCs: Macintosh
Memory: 512k
Price: \$599.00 - \$1780.00 including tax
Supplier: Infomagic Australia

Shuttle Computer Mailbox

Computer mailbox provides the benefits of private electronic mail to any computer user with standard dial-up modem. It stores incoming messages from authorised callers in its 64k of battery backed message memory. Three levels of security protection and control are provided.
Baud Rate: 300, 1200, 2400 bps
Price: \$655.00
Supplier: Shuttle Datacomm Pty Limited
 standard Videotex database, and the uploading of it to the host. The Editor is

VIDEOTEX**BOS Communications**

BOS Communications allows you to transfer data between a BOS computer and a remote computer using X.25, 2780/3780, ICL C-03, BSTAM and XMODEM protocols. There is also optional terminal emulation for a PC. The BOS operating system itself allows communications through modems to any serial device without the need for any special communications software.
PCs: Large range of micro/mini computers
Op. Sys.: BOS
Memory: 128k
Baud Rate: 9600
Price: \$500.00
Supplier: Soft Centre Pty Ltd

Co Co Tex

Allows use of the Tandy Colour Computer as a Videotex terminal.
PCs: Tandy Colour Computer
Memory: 64k
Storage Req.: cassette tape interface
Baud Rate: 1200/75
Price: \$99.95
Supplier: Intertan

GATEWAY

Cybersoft Corporation's GateWay is an Australian designed communications package to access Videotex information services. You can transfer Videotex information to your word processor and spreadsheet programs. GateWay requires no complex or confusing commands. Every screen and option has help available and a comprehensive user manual is supplied. The full GateWay package includes Upstart.

Price: \$135.00 ex tax
Supplier: Arcom Pacific

GreddenTel

GreddenTel is Videotex software for the Macintosh. It can be used on most intelligent Hayes compatible 1200/75 modems. GreddenTel provides access to Telecom's Viatel, and a wide range of other Videotex services such as Handyline from Westpac.
PCs: Apple Macintosh - all configurations
Memory: 512k
Price: \$126.00 including tax
Supplier: Gredden Pty Limited

IBM Videotex Communications Adaptor

The IBM Videotex Communications Adaptor allows communication with Videotex Systems via dial-up telephone lines. The IBM PC Asynchronous Communications Adaptor RS-232 Interface is supported on this card. The display refresh rate is 50Hz and characters are displayed in a 10 x 8 dot box. Layout is 25 lines of 40 characters.
PCs: IBM PC/XT/AT
Price: P O A
Supplier: IBM

IBM Videotex Terminal Support

The IBM Videotex Terminal Support enables you to communicate with the Videotex data base(s).
PCs: IBM PC/XT & compatibles
Op. Sys.: PC/MS-DOS
Price: P O A
Supplier: IBM

Microbee Videotex

Very friendly, easy-to-use communications program for Videotex. Simple menu operation, ability to save and resend files.
PCs: Microbee Premium Computer
Op. Sys.: CP/M
Memory: 128k
Storage Req.: 1 x 400k floppy disk
Baud Rate: 1200/75
Other Req.: For autodialling - Microbee automodem.
Price: \$49.50
Supplier: Microbee Systems Limited

PC-Display

PC-Display acts as a Videotex host system, based on an IBM PC. With additional hardware up to eleven simultaneous users can be supported. Full password and closed user group validation is available. Prestel page compatibility, full mail, data capture and editing features. The host PC can act as eleventh terminal or monitor users. Networking version, available shortly, will allow multiple PC/ATs to access one mass-stored database.
PCs: IBM PC/XT/AT & compatibles
Op. Sys.: PC/MS-DOS
Memory: 256k
Storage Req.: 1 x 360k floppy
Baud Rate: 1200/75, 300 - 9600
Other Req.: At least one RS232 port, colour monitors, graphics adaptor.
Price: \$1049.00 including tax.
Supplier: Syscorp Pty Limited

PC-EDITOR

PC-Editor provides the facilities for offline creation and maintenance of a Prestel-

fully featured for all Videotex functions. Utilities include nodal manipulation, global search and replace, back-cross-reference, DOS file to Videotex page, printing by node, etc. Whole databases can be bulk-updated at various baud rates. Also telesoftware uploading to store programs on Videotex services.

PCs: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Memory: **256k**
Storage Req.: **1 x 360k floppy**
Baud Rate: **1200/75, 300 - 9600**
Price: **\$1066.00 including tax**
Supplier: **Syscorp Pty Limited**

Tandy VTEX 2

Australian written software allowing Tandy 1000 and 2000 series computers to communicate with the Viatel network using an optional V2123 modem.

PCs: **Tandy 1000/2000**
Op. Sys.: **MS-DOS**
Memory: **128k**
Storage Req.: **360k diskette drive**
Price: **\$235.00**
Supplier: **Intertan**

VBULK

VBULK allows an offline copy of a Videotex database to be prepared and maintained. Changes are uploaded to the host using Viatel bulk update protocol. The program has special features for turning DP files into frames, and features to allow automation of often repeated functions such as checking frame access counts.

PCs: **IBM PC/XT/AT & compatibles, Wang PC**
Op. Sys.: **PC/MS-DOS 2.11 or higher**
Memory: **256k**
Storage Req.: **360k**
Baud Rate: **1200/1200**
Other Req.: **Modem with V22 capability.**
Price: **From \$1590.00**
Supplier: **Neologue Pty Limited**

VIDTERM

Vidterm allows connection of an IBM PC to any Prestel-standard Videotex service. Graphics colour and other Videotex attributes are supported. Other modes include colour or monochrome ASCII for connection to bulletin boards, Minerva, Telememo, etc. Up to ten phone numbers and settings can be stored, with one key autodialling. Context sensitive help, telesoftware download, a powerful command file language, local editing and

carouselling, page storage unlimited and frame printing are some features.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **1 x 360k floppy**

Baud Rate: **1200/75, 300 - 9600**

Other Req.: **RS232 port, modem, colour monitor, graphics adaptor.**

Price: **\$336.00 including tax.**

Supplier: **Syscorp Pty Limited**

VTEX2

Allows automatic log-on (even through Austpac) to Videotex services. Frames may be captured for later review and may be printed in text or graphics modes. Offline prepared mail and telexes may be sent to the host. A macro facility allows sequences of operations to be completely automated.

PCs: **IBM PC/XT/AT, Wang PC, NEC APC III etc**
Op. Sys.: **PC/MS-DOS 2.11 and higher**
Memory: **256k**
Baud Rate: **1200/75**
Other Req.: **Modem with V23 capability.**
Price: **\$235.00**
Supplier: **Neologue Pty Limited**
Data Sat Australasia Pty Limited

VTEX3

Provides the ability to prepare Videotex frames offline and later send them to the host online editor. Frame transmission takes 2-3 minutes at the normal 75 baud rate. Facilities are provided for merging WP data and colour/graphics data into a single frame. Normal user access functions (VTEX2) are also provided. PCs: **IBM PC/XT/AT, Wang PC, NEC APC III**
Op. Sys.: **PC/MS-DOS 2.11 or higher**
Memory: **256k**
Storage Req.: **360k**
Baud Rate: **1200/75**
Other Req.: **Modem with V23 capability.**
Price: **\$669.00**
Supplier: **Neologue Pty Limited**

Viasoft

Viasoft lets you access and use Prestel databases such as Telecom's Viatel. Viasoft features automatic dialling and baud rate selection, saving of Viatel screens on disk, display of these saved pages and scrolling back and forth, plus printing of Viatel screens, either graphics or text, depend-

ing on printer type.

PCs: **IBM & compatibles, CP/M machines**

Op. Sys.: **PC/MS-DOS, CP/M**

Memory: **12k**

Storage Req.: **SS, SD floppy disk drives**

Baud Rate: **1200/1200 and 1200/75**

Price: **\$155.00**

Supplier: **Capital Software**

Viaterm

Australian developed software to give access to Viatel communications. It features the ability to read and write frames to disk, user security to prevent unauthorised use of passwords and IDs. Will print to line printer, has memory available indicator and the ability to distinguish between columns on the screen.

PCs: **Tandy model 4**
Memory: **64k**
Storage Req.: **2 floppy disk drives**
Other Req.: **1200/75 modem. RS232 port**
Price: **\$99.95**
Supplier: **Intertan**

Videotex Emulator for Monochrome Wang PC

Permits low cost use of Videotex by removing need to outlay for a colour screen. Supports most Videotex functions, plus saving of pages to disk, printing of pages on PC's printer, and storage of customer ID for automatic transmission. Supports manual or auto dial modems, with or without baud rate converters.

PCs: **Wang PC or APC, standard monochr. screen**
Op. Sys.: **PC/MS-DOS 2.0**
Memory: **128k**
Other Req.: **External modem with Videotex operating mode.**
Price: **\$180.00 including tax**
Supplier: **Business & Technical Systems**

Videotext Package

The Videotext package contains software and a modem which enables users to run their APC-III as a Videotex terminal.

PCs: **APC-III**
Op. Sys.: **PC/MS-DOS**
Memory: **128k**
Baud Rate: **120 or 300**
Price: **\$635.00 ex tax**
Supplier: **NEC Information Systems**

TelexLink

TelexLink is an intelligent standalone system which handles all the dialling, predialling and receiving of telexes. Messages can be sent, queued and read at a PC or any other computer connected to the TelexLink. Your PC uses only a serial port and standard communications software to perform all telex functions via a simple menu driven system. TelexLink can be connected to any number of PCs at once. It is approved for use without a standby telex machine.

PCs: Any

Price: From \$6175.00 ex tax

Supplier: System Solutions Pty Limited

EIT PC Fax Card

The EIT card provides complete 2 way communication between PC and Fax machines. The 9600 baud modem is a multifunctional device that can be used as both a standard modem and fax modem. This allows you to use your fax machine as a scanner to input text, data and graphics to desktop publishing software networking and merge text and graphics.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 3.0 or higher

Memory: 512k

Storage Req.: 10Mb

Baud Rate: 9600

Price: \$2500.00

Supplier: Oshima Computers Pty Ltd

Faxmate

Transmission and reception of documents/files from PC to fax, fax to PC, and PC to PC. Features: auto dial, list dial, manual dial, voice contact, DOS functions, browse/crop fax files, print files. Merge text and graphics, preview and print merged document. OCR option. (Upgradable to Group IV).

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 512k

Storage Req.: 10Mb hard disk

Baud Rate: 9600 bps with auto step down.

Other Req.: Graphics adaptor.

Price: P O A

Supplier: Mitsui Computer Limited

GammaFax

GammaFax is a software package and internal modem which allows a PC to exchange text and graphics with Group III facsimiles. GammaFax can be controlled via DOS commands or its own menu driven system to direct files to a destination phone number. GammaFax can be polled and can automatically answer calls when set up in receive mode.

PCs: IBM PC & compatibles

Op. Sys.: PC/MS-DOS 3.1 or higher

Memory: 256k

Price: \$2840.00 including tax

Supplier: System Solutions Pty Limited

Teleplus 88

A Teleplus 88 system consists of a deskmate IBM compatible work station with communications facility and Teleplus software to allow use of telephone plus telex send and receive facility as well as computing.

PCs: Deskmate, IBM compatible

Op. Sys.: PC/MS-DOS

Memory: 256k

Storage Req.: 360k floppy disk drive

Price: \$4348.00

Supplier: Uni-X Pty Limited

TelexLink

TelexLink is an intelligent standalone system which handles all the dialling, predialling and receiving of telexes. Messages can be sent, queued and read at a PC or any other computer connected to the TelexLink. Your PC uses only a serial port and standard communications software to perform all telex functions via a simple menu driven system. TelexLink can be connected to any number of PCs at once. It is approved for use without a standby telex machine.

PCs: Any

Price: From \$6175.00 ex tax

Supplier: System Solutions Pty Limited

Memory: 512k

Baud Rate: Up to 19.2 kbps

EMULATION

3270 Coax Interface Support

Allows the Texas Instruments PC to attach to a 3274 or 3276 or integrated terminal cluster controller. Emulates 3278 models 2, 3, and 4 or with colour monitor, 3279 models 2A, 2B, 3A, 3B. File transfer is also possible if the host has the necessary software installed.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 128k

Storage Req.: 360k

Other Req.: Requires one slot in PC for hardware board

Price: P O A

Supplier: Texas Instruments Australia

3270 SNA Communications

Provides access to an SNA host computer

as a 3270 type terminal. It emulates the operation of an IBM 3276/12 cluster controller unit with a single 3278/2 display (3279/20 for colour) and printer 3287/2. Supports multiple logical units (SLU type 2 and SLO type 3 or type 1).

PCs: IBM PC/XT/AT & compatibles

TIPC, TIBP

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 192k

Storage Req.: 360k

Baud Rate: to 19.2kbps

Other Req.: Comms cord (serial port)

Price: P O A

Supplier: Texas Instruments Australia

3278/79 Emulation Control Program

The IBM Personal Computer 3278/79 Emulation Control Program increases the flexibility of the IBM XT/AT intelligent workstations for interactive and office use. It provides 3270 emulation via the IBM

3274 Control Unit, the IBM 4321, 4331, and 4361 Processors, or the IBM 4701 Finance Communications Controller and allows two active sessions; one host 3278 or 3279 session and PC-DOS session.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 128k

Storage Req.: 1 diskette and 20Mb Hard Disk

Other Req.: 3278/9 Emulation Control Program

Price: P O A

Supplier: IBM

3770 SNA Sync Comms Software

Allows PC to emulate an IBM 3770 terminal to an IBM SNA Network. Provides batch file transfer and remote job entry.

PCs: IBM PC & compatibles

Op. Sys.: PC/MS-DOS

Other Req.: **Requires IBM Comms Board.**
 Price: **\$837.00**
 Supplier: **Unisys**

3780 Cluster Emulator (Bisynchronous)

Emulates both IBM 2780 & 3780 remote job entry terminals providing file-transfer to remote mainframe, downloading of files to disk, printer, or terminal screen, interactive or job file operation, binary & ASCII file transmission, full IBM bisynchronous protocol support, multiple configuration files and on-line communications diagnosis.

PCs: **Altos**
 Price: **P O A**
 Supplier: **Altos Computer Systems**

3780 Communications

3780 is a synchronous communications package permitting attended or unattended data file transfer, providing automatic error detection and recovery.

PCs: **IBM PC/XT/AT & compatibles**
TIPC TIBP
 Op. Sys.: **PC/MS-DOS 2.1 or higher**
 Memory: **128k**
 Storage Req.: **360**
 Baud Rate: **up to 9600**
 Other Req.: **Comms cord (serial port)**
 Price: **P O A**
 Supplier: **Texas Instruments Australia Limited**

5250 Convenience Kit

The 5250 Convenience Kit contains the following products to allow the IBM Personal Computer to attach to a system and emulate a display station. It consists of the Emulator Adaptor, 5250 Emulation Program, T-Connector, Twinaxial Cable Assembly.

PCs: **IBM PC**
 Price: **P O A**
 Supplier: **IBM**

64 Talk

Cartridge based software for use with ASCII terminals and Videotex. Utilizes tape or disk for storage of workspace, pages, environment, data and programs. CET download & Christensens protocol. Print out facilities.

PCs: **Commodore 64 & 128**
 Other Req.: **Requires modem.**
 Price: **\$99.00**
 Supplier: **Acme Software**

Access 36

Allows connection of a PC to IBM system

34, 36, 38, using 525 emulation. Supports 7 LUs simultaneously, full windowing all sessions, cut and paste session to session or to PC-DOS. 68000 processor on board, file transfer, emulates 5251/11, 5291, 5292, 3180 and supports 5256, 5224, 5225, 5219 printers. Serial clustering up to 7 PCs. Local Area Network Twinax gateway.

PCs: **IBM PC/XT/AT & compatibles**
 Memory: **128k**
 Storage Req.: **1 x 360k diskette**
 Price: **\$1665.00 including tax**
 Supplier: **Shuttle Datacomm Pty Limited Wordcomm**

Adapt SNA 3270

Adapt SNA 3270 emulates 3274 controller with a 3278/9 terminal and a 3287 printer. It provides multiple screen and printer sessions, print to disk facility and a hot key to and from DOS applications. It is available as a combined package with Adapt SNA RJE for \$1475.00 excluding tax.

PCs: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS 2.0 or higher**
 Memory: **256k**
 Storage Req.: **2 x 360k diskette drives**
 Other Req.: **SDLC adaptor, synchronous modem**
 Price: **\$1075.00 ex tax**
 Supplier: **PCs PLUS**

Adapt SNA LU6.2/APPC

Implements IBM's LU type 6.2 protocol running PU type 2.1. Provides Advanced Program-to-Program Communications (APPC). An assist package is included to simplify learning and implementing this software. It provides access to IBM's Distributed Office Support system allowing PCs to be part of a mainframe mini network or communicate with each other in a true peer basis.

PCs: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS 2.0 or higher**
 Memory: **256k**
 Storage Req.: **2 x 360k diskette drives**
 Other Req.: **SDLC adaptor, synchronous modem**
 Price: **\$275.00 ex tax**
 Supplier: **PCs PLUS**

Adapt SNA RJE

Adapt SNA RJE emulates an IBM 3770 remote job entry workstation. It provides a very powerful and flexible solution to file transfer between an IBM mainframe and PC's. It provides a hot-key to and from DOS applications and is capable of unattended operation and automatic

recovery.

PCs: **IBM PC/XT/AT & compatibles**
 Op. Sys.: **PC/MS-DOS 2.0 and higher**
 Memory: **256k**
 Storage Req.: **2 x 360k diskette drives**
 Baud Rate: **Up to 19,200bps**
 Other Req.: **SDLC adaptor, synchronous modem**
 Price: **\$1075.00 ex tax (with Adapt SNA 3270 - \$1475.00 ex tax)**
 Supplier: **PCs PLUS**

Advancelink

HP2932A emulation, DEC VT52 emulation, DEC VT100 emulation.

PCs: **IBM PC & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Memory: **256k**
 Storage Req.: **360k**
 Baud Rate: **110 - 19200**
 Price: **\$566.00 ex tax, \$642.00 including tax**
 Supplier: **Hewlett-Packard Australia Limited**

Altos 3270 Cluster Emulator (Bisync.)

Emulates IBM 3274/76 cluster control unit with standard bisynchronous protocol; IBM 3278 display on standard ASCII terminal with key cap decals for popular terminals and the 3287 printer on standard ASCII printers. Supports up to 32 terminals and/or printers on a single remote connection, point-to-point or multidrop connection, remote access across Worknet II network and has a C library interface for program access.

PCs: **Altos range**
 Price: **P O A**
 Supplier: **Altos Computer Systems**

Altos 3270 SNA/SDLC Emulator

Emulates IBM 3270 displays (LU2) on standard ASCII terminal and IBM 3287 SCS(LU1) or DSC(LU3) printers providing spooled printing. It supports up to 16 terminals and/or printers on single remote connection and provides flexible screen and keyboard adaptation with keycap decals for popular terminals. Also features automatic EBCIC to ASCII translation and remote access across Worknet II.

PCs: **Altos 3068, 1086/2086, 586(T) & 986(T)**
 Baud Rate: **9600**
 Price: **P O A**
 Supplier: **Altos Computer Systems**

AttachRemote FastSDLC Adaptor

AttachRemote FastSDLC provides 3270-PC compatibility on a remotely attached PC. The software is fully compatible with the widely acclaimed 3-N-1 adaptor, including the API support, Tempus-Link, PS/PC, host graphics support and host printer support.

PCs: **IBM PC & Compatible**

Memory: **128k**

Baud Rate: **Up to 19.2bps**

Price: **\$2095.00**

Supplier: **Distributed Data Processing Pty Limited**

Attachmate 3-N-1 3270 Emulation Adaptor

Attachment provides hardware compatibility with IRMA and with the IBM 3278/9 Adaptor, enabling it to run any software written for these adaptors. The Attachmate software provides full 3270-PC functionality, is compatible with the IBM PC 3270 emulation, API and many other functions. Host graphics software is also available.

PCs: **IBM PC & compatibles**

Memory: **83k**

Price: **\$2495.00**

Supplier: **Distributed Data Processing Pty Limited**

BIS-3270

BIS-3270 is an emulator for the IBM 3270 Information Display System running on the APC-III. It supports: IBM 3274/3278, 3275 and 3276. The APC-III can thereby communicate with the host computers using standard IBM Binary Synchronous Communications protocol.

PCs: **NEC APC-III**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Baud Rate: **9600bps**

Price: **\$730.00 ex tax**

Supplier: **NEC Information Systems**

Binary Synchronous 3270 Emulation

Binary Synchronous Communications 3270 Emulation software enables the IBM Personal Computer to act as terminal that can communicate with a host system as a BSC 3270 device. It includes support and fully menu driven configuration software.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage Req.: **1 diskette**

Baud Rate: **Up to 9600bps**

Other Req.: **IBM Binary Synchronous Communications Adaptor**

Price: **P O A**

Supplier: **IBM**

CO3 Protocol Converter

The Newbury CO3 Protocol Converter enables an ICL CO3 line from 8 to 32 ports, to be converted into the equivalent number of ASCII terminals.

PCs: **ICL Multidrop line**

Baud Rate: **300 to 19200**

Price: **\$10000.00 to \$25000.00**

Supplier: **Offcom Pty Limited**

CP Blue

CP Blue plugs into a spare slot enabling users to communicate with up to ten different mainframe systems. Two communications ports support asynchronous/synchronous protocols, at speeds up to 19.2kbps. Softloaded for easy updates of protocols and terminal emulations. Australian designed - total local support. Two year warranty.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **320k**

Baud Rate: **300 - 19200**

Price: **\$1468.00 including tax**

Supplier: **Computer Protocol Pty Limited
Honeywell Information Systems**

CPI 5251 Emulation Card

Mini adaptor board allows PC to emulate 5251 workstation and communicate with IBM Systems 34/36/38. Supports all of IBM's 'virtual disk' file transfer software, attaches directly to Twinax cable, 100% IBM hardware and software compatible.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$1895.00**

Supplier: **Software Corporation of Australia**

CXI Micro to Mainframe Products

CXI provides a complete range of micro to mini and mainframe products incorporating coaxial, modem and twinax connection to IBM minicomputers & mainframes. With Novell's acquisition of CXI a greater emphasis has been put on LAN Gateway

connections to such devices.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Storage Req.: **1 floppy**

Baud Rate: **1200 - 48k**

Price: **\$995.00 - \$7495.00**

Supplier: **Tech Pacific Pty Ltd**

DG D200 Terminal Emulator for Wang PC

Emulates a generic terminal from the DG D200 family on the Wang PC. Supports screen print, simultaneous print of received data, and simple ASCII file send/receive.

PCs: **Wang PC, standard monochrome screen**

Op. Sys.: **PC/MS-DOS 2.0**

Memory: **128k**

Price: **\$180.00 including tax**

Supplier: **Business & Technical Systems**

Document On-line Conversion Software

DOCS is an emulation package which provides file transfer capability between Prime and Wang systems, in Wang's WPS, Wang or Prime format. It can also be integrated into 'TOS' system.

PCs: **Prime**

Op. Sys.: **Primos**

Storage Req.: **500k**

Other Req.: **Prime SMLE & Wang PC**

Price: **\$7500.00**

Supplier: **Offcom Pty Limited**

ESC100

ESC100 is a DEC VT52/100 emulation package. The emulation is a menu driven package with specific screens to change tab settings, emulation mode, the communications set up and the APC-III function keys.

PCs: **NEC APC-III**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Baud Rate: **300 to 1200**

Price: **\$400.00 ex tax**

Supplier: **NEC Information Systems**

Enhanced 5250 Display Station Emulation

The Enhanced 5250 Display Station Emulation Adaptor allows an IBM PC/XT/AT to be attached to an IBM Systems/34, 36 or 38 and establish one or two sessions with the host. Device addresses are set under program control. It is installed in a full length slot, provides diagnostics aids and is available with an installation and a

problem determination manual.

PCs: **IBM PC/XT/AT & compatibles**

Price: **P O A**

Supplier: **IBM**

GDT 6225

The GDT 6225 provides all the standard features of the VT52, VT100 and VT220 terminals plus a tilt/swivel non-glare monitor and a low profile detached keyboard. Special features are: user-selectable CRT saver delay, non-volatile user function keys with local keyboard or remote host loading, user-selectable variable speed smooth scroll, true VT100 mode and user-selectable function key priority features.

Price: **\$877.00 ex tax**

Supplier: **Datronics Corporation Ltd**

Honeywell Sync/Async Terminal Emulator

An emulation program for using a Honeywell or IBM PC as a Honeywell asynchronous or synchronous terminal. It allows direct communication with a Honeywell DPS 6 or DPS 8 host. It supports character, text, forms, line graphics and word processing modes.

PCs: **IBM PC/XT/AT & compatibles, Honeywell**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Storage Req.: **360k diskette**

Other Req.: **Serial port or communications adaptor**

Price: **\$520.00**

Supplier: **IDEAssociates Australia**

Honeywell Information Systems

IBM 3101 Emulation Program

The IBM 3101 Emulation Program provides: emulation of the IBM 3101 Display Terminal according to user-selected options contained in specification files; transmission of ASCII format files to and from host computer and local storage on diskette; conversion of ASCII format files to and from binary format.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **64k**

Storage Req.: **1 diskette**

Other Req.: **Asynchronous Communications Adaptor and Modem**

Price: **P O A**

Supplier: **IBM**

IBM Display Station Emulation Adaptor

The IBM Personal Computer Display Station Emulation Adaptor is hardware to attach a PC to a twinax line. It uses a system expansion slot. It is not supported on a PC-XT or a PC with an Expansion Unit. The Emulation Adaptor provides a two-pin interface for connection to the Twinaxial Cable Assembly. It is not compatible with the Fixed Disk Adaptor.

PCs: **IBM PC**

Price: **P O A**

Supplier: **IBM**

IBM Enhanced 5250 Emulation

This package provides emulation of IBM 34, 36 and 38 minicomputer terminals. It provides host graphics support, table-driven printer support, keyboard enhancement, serial printer attachment support and EGA and VGA graphics controller support.

PCs: **IBM PC/XT/AT & compatibles**

Memory: **128k**

Other Req.: **Graphics adaptor**

Price: **P O A**

Supplier: **IBM**

IBM PC 3270 Emulation (Entry level)

With this program a PC can emulate an IBM 3278/9 Display Station with certain restrictions. DOS and host sessions are supported and may be selected by a 'hot key'. The PC keyboard may be redefined to match that of the host. It is compatible with TOPVIEW (offering the user multi-tasking and windowing) and IBM network products. Version 2.00 is enhanced and allows access to 370 mainframes. Version 3.00 has further enhancements and allows attachment to the IBM 3725. Upgrades between versions are available.

PCs: **IBM PC/XT/AT & compatibles**

Memory: **128k**

Storage Req.: **1 diskette drive**

Other Req.: **Graphics adaptor and relevant cables**

Price: **P O A**

Supplier: **IBM**

IBM PC 3278/79 Emulation Adaptor

The IBM Personal Computer 3278/79 Emulation Adaptor allows coaxial cable attachment to an IBM 3274 Control Unit or IBM 4331, 4361, or 4700 systems. It provides host communications support,

emulation of an IBM 3278 Display Station or an IBM 3279 Colour Display Station, and can support file transfer.

PCs: **IBM PC/XT/AT & compatibles**

Price: **P O A**

Supplier: **IBM**

IBM PC Graphics Terminal Emulator

The IBM PC Graphics Terminal Emulator provides the IBM Personal Computer with the capability to emulate the Tektronix 4010 and 4100 protocols and the Lear Siegler ADM3A permitting the use of software which runs on these terminals.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.1 or higher**

Memory: **256k**

Storage Req.: **2 diskette drives**

Price: **P O A**

Supplier: **IBM**

ICC Burroughs Terminal Emulation S'ware

Allows a Burroughs PC to emulate a TD830, MT983 or ET1100. Supports clusters with up to 64 workstations with 5 addresses per workstation. Supports background printing. Programmable keyboard. Speeds up to 38,000 baud. Hotkey facility to/from MS-DOS to emulation.

PCs: **MS-DOS, B21/B25/B27/B28/XE520**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Price: **From \$590.00**

Supplier: **Information Gateways Pty Ltd**

ICC Sperry File Transfer Software

A very fast and efficient file transfer product between MS-DOS PCs and Sperry mainframes. Data compression and data encryption algorithms used. Uploads/downloads mainframe SDF, ISAM, mapper, DMS11000, data and program files. Utilises tip mode for maximum speed. Transfers may be interactive, batch or unattended. Three security levels.

PCs: **Burroughs B2X, XE520, Sperry & MS-DOS**

Op. Sys.: **PC/MS-DOS**

Price: **From \$850.00**

Supplier: **Information Gateways Pty Ltd**

ICC Sperry Terminal Emulation Software

Fully featured with 'pop-up' menus. Provides 4 stations per workstation/PC plus 1 device driver. Speeds up to 19,200

baud. Programmable keyboard. Hotkey facility from MS-DOS to emulation. Full mapper, editor and printer file upload/download. TIP 30 file transfer. UPIF/IPIF datacomm library interface available.

PCs: **Burroughs B2, XE520, or Sperry PC**

Op. Sys.: **BTOS**

Memory: **256k**

Price: **From \$590.00**

Supplier: **Information Gateways Pty Ltd**

IDEACOMM 3270/BSC (Remote)

The 3270/BSC emulates the following IBM terminals: 3271-2 controller, W/3272-2 terminal, 3274 controller, W/3278-2 terminal, 3275-2 controller/display station and the 3276 controller/display station. It can emulate IBM 3284 or 3286 printers.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **128k**

Baud Rate: **19.2kbs bisynchronous**

Other Req.: **Synchronous modems**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 3270/SNA

The IDEACOMM 3770/SNA and 3780/BSC packages allow the PC to duplicate the functions of remote TOB entry terminals. These are: batch data transfer; IBM terminal emulation; 3274 controller W/3278-2, 311179 terminal, 3276 controlled/display section. IBM printer emulation; 3287, 3284, 3286 and 3288.

PCs: **IBM PC/XT/AT and compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **128k**

Baud Rate: **19.2kbs SNA/SDLC**

Other Req.: **Synchronous modems**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 3278 (Local)

Terminal emulation: 3278 models 2, 3, 4, 5 and 3179 (seven colours). Line protocol: SNA/SDLC or BSC. File transfer software included for TSO and VM/CMS environments. Compatible with 3rd party file transfer, any software written for native Idea or Irma interfaces. Ideacomm 3278 supports light pens and a wide variety of keyboards

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **128k**

Baud Rate: **Data transfer rate 2.35Mb/sec**

Other Req.: **IBM 3174, 3274 or 3276 con-**

trol unit.

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 3287 (Local)

Ideacomm 3287 is an internal board and software for emulating an IBM 3287 system printer. It features a hot key to DOS, predefined and user-defined printer capabilities and supports all serial and parallel PC printers. Both PC's and 3270 terminals can send prints to PC.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **128k**

Other Req.: **IBM 3274 and 3276 Cluster Controllers.**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 3770/SNA (Remote)

The IDEACOMM 3770/SNA emulates these IBM terminals: 3771-1,2,3 terminal, 3774-P1,P2 terminal, 3775-P1 terminal, 3776-1,2 terminal and 3771-1 terminal. To emulate an IBM printer, print to disk or to IBM PC printer.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **128k**

Baud Rate: **19.2kbs SNA/SDLC**

Other Req.: **Synchronous modems**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 3780/BSC (Remote)

The IDEACOMM 3780/BSC emulates IBM 3780 terminals, 2780 terminal, 3741 terminal, 2770 terminal, and links PC to PC. Printing is achieved by 'print to disk' or to an IBM PC printer.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **128k**

Baud Rate: **19.2kbs bisynchronous**

Other Req.: **Synchronous modems**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 5250/Remote

Emulate up to 9 logical units. Emulates 5251-11, 5291, 5292-1 display, 5224, 5225, 5256 printers and 5299 and 5251-12 controllers. Ideacomm 5250/remote supports IBM file transfer

as well as many third party file transfer packages.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0, 2.1, 3.0 or 3.1**

Memory: **128k**

Baud Rate: **19.2kps SNA/SDLC**

Other Req.: **RS232 Cables plus modems if required.**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 5251

Emulate up to four logical units, including one printer session. The four sessions may be displayed at once through windows. Emulates 3180, 5251-11, 5291, 5292-1 screens, 5219, 5224, 5225, 5256 printers. Standard features supplemented by 5219 (letter quality) printer support and 3180 (132 column display) emulation.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0, 2.1, 3.0, 3.1**

Memory: **128k**

Baud Rate: **Transmission speed 1Mb/sec**

Price: **P O A**

Supplier: **IDEAssociates Australia**

IDEACOMM 5251/Share

This product allows four PCs to connect to an IBM mini via one IDEACOMM 5251 card. A PC with the 5251 card acts as a server PC connected to the other three PC's via RS232 cable. The four logical units of the 5251 card are now shared among the users as required. As far as each PC is concerned, they are connected directly to the mini. One of the users may be connected to the server via Async modems.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0**

Memory: **128k**

Baud Rate: **115k**

Price: **P O A**

Supplier: **IDEAssociates Australia**

INS 8100 Adaptor

Provides 3270 screen and printer emulation. Its on-board microprocessor provides excellent performance and network behaviour. Approved by IBM's SNA validation laboratory.

Memory: **128k**

Baud Rate: **19.2**

Price: **\$2940.00**

Supplier: **Distributed Data Processing Pty Limited**

INS SDLC Adaptor

Provides 3270 screen and printer emulation for a remote PC. Its on-board microprocessor provides excellent performance and network behaviour. Approved

by IBM's SNA validation laboratory.
 Memory: **46k**
 Baud Rate: **19.2**
 Price: **\$2295.00**
 Supplier: **Distributed Data Processing Pty Limited**

INS SDLC Gateway Adaptor

Provides 3270 screen and printer emulation for PCs connected to a NETBIOS-compatible LAN. Its on-board microprocessor provides excellent performance and network behaviour. Approved by IBM's SNA validation laboratory.
 Memory: **256k**
 Baud Rate: **19.2**
 Price: **\$4495.00**
 Supplier: **Distributed Data Processing Pty Limited**

INS X.25 Adaptor

Provides 3270 screen and printer emulation for an x.25 connected PC. Its on-board microprocessor provides excellent performance and network behaviour. Approved by IBM's SNA validation laboratory.
 Memory: **55k**
 Baud Rate: **19.2**
 Price: **\$2295.00**
 Supplier: **Distributed Data Processing Pty Limited**

INS X.25 Gateway Adaptor

Provides 3270 screen and printer emulation for PCs connected to a NETBIOS-compatible LAN. Its on-board microprocessor provides excellent performance and network behaviour. Approved by IBM's SNA validation laboratory.
 Memory: **256k**
 Baud Rate: **19.2**
 Price: **\$4495.00**
 Supplier: **Distributed Data Processing Pty Limited**

IQ210

The lightweight portable IQ210 is ideal for applications with RS232C communications equipment and is required to communicate with a device using the IEEE 488 Bus. Similarly, the IQ210 can communicate from a computer or controller using only RS232C as the communications link to a dedicated single or multiple devices communicating over the IEEE Bus.
 PCs: **Any with RS232 port**
 Price: **\$750.00 ex tax**

Supplier: **Mestec Electronics Pty Ltd**

IS PC

Provides interactive terminal support via UTS emulation. Includes DPP file transfer, DPP job submission, information library services and information processing services.
 PCs: **IBM PC & compatibles**
 Op. Sys.: **PC/MS-DOS**
 Memory: **512k**
 Baud Rate: **Up to 19.2 kps**
 Other Req.: **Requires Uniscop Comms Card.**
 Price: **\$1806.00**
 Supplier: **Unisys**

Interactive CO3

CO3 is an emulation package which allows Prime users to use their workstations as ICL CO3 terminals. Data and applications residing on the ICL are accessible. Workstations are switchable between Prime and ICL.
 PCs: **Prime**
 Op. Sys.: **Primos**
 Storage Req.: **20k**
 Other Req.: **Protocol converter & ICL system**
 Price: **\$17500.00 to \$45000.00**
 Supplier: **Offcom Pty Limited**

Mac Dasher

Mac Dasher is a full emulation of Data General D210 Terminal for the Macintosh and supports all keyboard characters, direct cursor addressing, control codes and printer pass through. It also offers file transfer capabilities. All commands are accessible through pull down menus which are user specifiable as are the function keys.
 PCs: **Macintosh**
 Price: **\$3420.00**
 Supplier: **Symbiotic Computer Systems**

MacTerminal

Terminal emulation software for asynchronous communications on Macintosh.
 PCs: **Macintosh**
 Baud Rate: **Up to 19,200**
 Price: **\$175.00**
 Supplier: **Apple Computer Australia Pty Limited**

Macwindows 3270

Macwindows 3270 emulation allows simultaneous access to up to four host applications. Each can be accessed in a separate screen window. It is designed to work with the Netway 1000A providing IBM BSC and SNA/SDLC conversion and 3278-2 emulation for Macintoshes on an Ap-

pletalk network.

PCs: **Apple Macintosh**
 Price: **P O A**
 Supplier: **Netcomm (Australia) Pty Ltd**

MicroTel (u-Tel)

MicroTel is a Viatel terminal emulator which provides full support for Prestel graphics, double-height characters, blink etc. It can run either in colour or monochrome mode and allows the user to save pages to disk, print pages (including graphics) and send information to Viatel. It is suitable for use by service providers.
 PCs: **DEC Rainbow 100, VAX**
 Op. Sys.: **MS-DOS 2.05 or higher**
 Memory: **128k**
 Storage Req.: **64k**
 Baud Rate: **Depends on modem**
 Other Req.: **Hayes compatible 1200/75 modem, graphics board, colour monitor preferred**
 Price: **\$150.00 ex tax**
 Supplier: **Digital Centre**

Mouse Exchange Terminal

This program is a simple, yet sophisticated terminal emulator. It emulates a variety of common terminals, has a built-in screen editor, and easy-to-use macros and dialling functions, it provides upload and download facilities for ASCII, XModem and MacBinary, and may be configured to work with any modem.
 PCs: **Macintosh**
 Price: **\$100.00**
 Supplier: **Symbiotic Computer Systems**

Opal Advanced Workstation Software

Opal AWS is an Apple Macintosh application which turns the Mac into an intelligent, communicating workstation for Unix, Pick, VMS, Data General, WANG, IBM and a range of other minis and mainframes. Host computers may take advantage of the Macintosh user interface, with or without changes to the host software. An in-built programming language, Opal Script, allows total customisation.
 PCs: **Apple Macintosh 512k +**
 Op. Sys.: **Macintosh**
 Memory: **512k**
 Storage Req.: **Single floppy**
 Price: **\$550.00 ex tax**
 Supplier: **Logic Source Australia Pty Limited**

P.C.V.

Connects PC to 5000 series systems with Unix System V through VT100 emulation. Connection direct or through modems (RS232).

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Baud Rate: **Up to 19.2kbps**

Price: **\$859.00**

Supplier: **Unisys**

PC Compatability Module

Allows standard IBM PC/AT compatible software products to run on a B25 workstation. It supports CGA and Hercules graphics. It is not board compatible.

PCs: **Connects B26 and B28**

Op. Sys.: **BTOS and MS-DOS 3.1**

Memory: **225k**

Price: **P O A**

Supplier: **Unisys**

PC-PLOT

PC-PLOT is the software necessary to make an IBM PC perform the same function as a Tektronix model 4010 Graphics Terminal. The IBM PC can then become a dual purpose device capable of accessing normal use as a local computer.

PCs: **IBM PC or XT & compatibles**

Memory: **64k**

Storage Req.: **1 disk drive**

Other Req.: **Asynchronous communication adapter, high quality display monitor, graphics board.**

Price: **Ranges**

Supplier: **CEANET Pty Limited**

Parity Emulation Software

Parity Computer offer a range of communications software for IBM 3270 and 5250 environments as well as offering supporting software for other mainframe and mini computers. Additionally we support both IBM Token-Ring and Novell networks.

Price: **P O A**

Supplier: **Parity Computer Limited**

Poly-Star Software

Full DEC VT220/240/241 emulator. It supports full colour graphics with normal or EGA graphics boards as well as 132 column display in VT220 emulation mode. Sophisticated and comprehensive file trans-

fer capability is incorporated.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Baud Rate: **Up to 19.2k**

Price: **\$450.00**

Supplier: **Interface Technology of Australia**

Reflection

The Reflection series of products emulate DEC VT and Hewlett Packard terminals. The series provide file interchange, enhanced display memory, forms caching and the ability to scroll 10 thousand characters horizontally. X modem protocol is supported.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Price: **P O A**

Supplier: **Mercury Computer Systems**

Relay/3270

Relay/3270 allows the user's PC to emulate the standard IBM 3270 terminal. All features of the 3270 are supported in a simple and easy to use manner over asynchronous telephone lines. This product allows you to connect as many terminals as you wish to your mainframe without each PC having to have its own expensive IRMA board.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **VM**

Other Req.: **Relay/VM**

Price: **US \$5000.00**

Supplier: **Kowhai Systems**

Remote 5250 Emulation Program

The Remote 5250 Emulation Program allows an IBM PC to be remotely connected, over communication lines, to an IBM System/36 or 38. If a printer is attached, an IBM 5256 Matrix Printer or 5219 Printer may be emulated and used as a workstation printer by the System/36 and System/38.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.1 or higher**

Memory: **256k**

Storage Req.: **1 x 360 diskette**

Baud Rate: **9600bps**

Price: **P O A**

Supplier: **IBM**

SAS/RTERM Software

SAS/RTERM software is a terminal emulator for your Personal Computer that produces high-resolution graphics from a hard copy device attached to the PC. It al-

lows you to use your IBM PC to emulate a Digital Equipment Corporation VT100 terminal or the graphics commands of a Tektronix 4100 Series terminal, and spool hard copy graphics to a number of graphics devices.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Storage Req.: **Fixed disk**

Price: **Site license fee 1-3 copies**

\$1200.00, 50 copies \$2000. P O A

Supplier: **SAS Software Pty Limited**

SNA 3270 Emulation and RJE Support Prog.

This program enables the IBM Personal Computer to act as terminal that communicates with a host by System Network Architecture (SNA) 3270 emulation, or SNA 3770 Remote Job Entry (RJE). It also includes software to support the IBM SDLC Communications Adapter. A configuration program allows the user to configure the system using menus.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage Req.: **One diskette drive**

Baud Rate: **Up to 4800**

Other Req.: **IBM SDLC Communications Adapter**

Price: **P O A**

Supplier: **IBM**

SNA/COAX Emulator

The COAX 3270 Emulator is a distributed processing utility for the NEC APC-III that emulates the functions of the IBM 3270 Information Display System station.

PCs: **APC-III**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **720k**

Other Req.: **COAX Communications Board**

Price: **\$600.00 ex tax**

Supplier: **NEC Information Systems**

Series II 3270 Protocol Converter

Series II 3270 Protocol Converter allows attachment of eight IBM, WANG and Apple Macintosh PC's, an IBM synchronous network via SNA or Bisynchronous protocols. It performs error-checking, translates the data to ASCII in serial or parallel format. This system allows operation of a wide variety of peripheral equipment such as CRTs and line printers at high telecommunications

data rates.

Baud Rate: **Up to 56k**

Price: **\$10500.00 including tax**

Supplier: **Datronics Corporation Ltd**

Series II Twinax Protocol Converter

This device allows attachment of up to 7 parallel or asynchronous serial devices to an IBM system 34, 36 or 38 through the IBM twinaxial protocol. Allows connection of IBM, WANG and Apple Macintosh PCs, includes full terminal emulation and file transfer. Most ASCII printers or CRTS will appear to the host as IBM 5225 printers or 5251 Model I or II terminals.

PCs: **IBM PC/XT/AT & compatibles, Macintosh**

Baud Rate: **110 - 19200bps**

Price: **\$10500.00 including tax**

Supplier: **Datronics Corporation Ltd**

Sim3278/VTAM

Sim3278/VTAM, in conjunction with Sim/PC provides asynchronous 3270 emulation with end-to-end error correction. Excellent product where data validation is

important, and particularly strong in a X.25 environment. Simware also provides PC host file transfer, a host printer support with Sim3278.

Memory: **192k**

Price: **\$33000.00 and above**

Supplier: **Distributed Data Processing Pty Limited**

Softerm PC

Features concurrent multiport operation, complete emulation of over 30 terminals, hot key to and from DOS, keyboard macros, full screen text editor and monitor mode for remote access. Softerm supports Xmodem, Kermit, Softrans, Crosstalk and Hayes Verify file transfer protocols. It supports 4 serial and 3 parallel ports foreground and background.

PCs: **IBM PC/XT/AT & compatibles,**

NEC, Wang

Memory: **256k**

Storage Req.: **1 diskette**

Baud Rate: **50 - 115200**

Price: **\$499.00 including tax**

Supplier: **Wordcomm**

Sunbelt's Term 82M Datapoint Emulator

Term 82M is a Datapoint 8220 terminal emulator for DOS or RMS that performs file transfer via the multiport adaptor. The port can be configured at any speed up to 9600bps. A special program runs on the Datapoint host to detect errors and automatically adjust the baud rate downwards until successful file transfer occurs.

PCs: **IBM PC/XT/AT & compatibles, DEC, Wang**

Op. Sys.: **PC/MS-DOS, DOS RMS**

Memory: **128k**

Baud Rate: **9600**

Price: **\$810.00 site licence**

Supplier: **Interface Technology of Australia**

T GRAF-07

Tektronix terminal emulator that supports additional functions of a 4107 terminal, as well as those of a 4105 terminal. Essentially it turns the PC into a graphics workstation supporting features such as true zoom and pan, rubberbanding, file capture and

We put your PCs on speaking terms.

Thanks to our family of Systems Network Architecture (SNA) communications products, your PCs need no longer be isolated from the rest of the world. Our flexible solutions instantly turn your IBM PCs, XT's, AT's and compatibles into powerful communicating workstations.

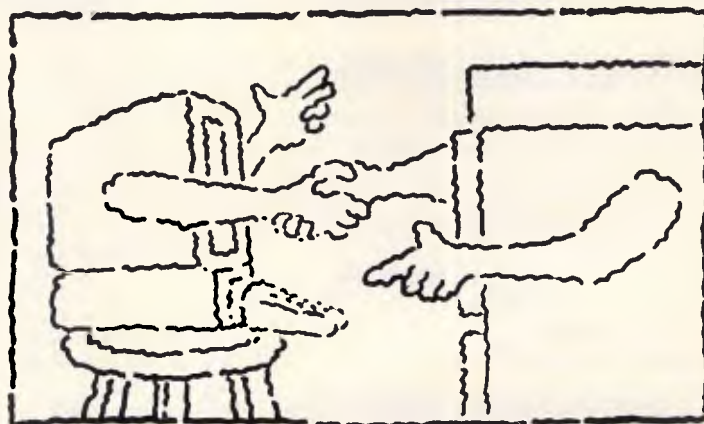
For PC-to-mainframe applications, there's our AdaptSNA™ RJE and AdaptSNA 3270 products. For PC-to-PC communications, we offer SyncTalk™, RemoteTalk™ and PCcom™. And if you want to take advantage of the latest in SNA, there's our LU6.2/APPC package.

All NSA products are available as software-only packages which work with SDLC adapter boards from IBM and most other vendors. Or as total hardware/software solutions incorporating our AdaptCom™ boards.

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11 Sevenoaks Road, East Burwood, Victoria. 3151
Phone: (03) 233 7955



various input devices.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **One floppy drive**

Price: **P O A**

Supplier: **Dimension Graphics Pty Ltd**

Tekalike (Macintosh)

Tekalike is a graphics terminal emulation program which enables the Macintosh to display and save images which normally require Tektronics Graphics Terminals. The program emulates Tektronics 4006, 4010, 4012, 4014 and 4016 terminals, plus Tektronics 4015 colour, a VT-100 compatible and a VT 640 compatible terminal. Tekalike can integrate mainframe graphics with other Macintosh programs such as MacDraw, MacPaint, etc. Graphics may be saved or printed on the ImageWriter or LaserWriter, or plotted on a broad selection of pen plotters.

PCs: **Macintosh**

Op. Sys.: **Macintosh**

Price: **\$410.00**

Supplier: **Symbiotic Computer Systems**

Tempus-Access

Tempus-Access is a companion product to Tempus-Link, providing host file access from the PC environment. Accessible via a pop-up window or a command file, the required extraction is defined and run, with the data placed in a Tempus-Link virtual disk for transfer to the PC, or direct access via a PC application.

Memory: **150k**

Price: **\$11500.00 entry price**

Supplier: **Distributed Data Processing Pty Limited**

Tempus-Link

Tempus-Link provides virtual disk on the mainframe, enabling network-wide data sharing and host file transfer, all from within the PC-DOS environment. The host API (HAPI) provides application to application communication between the PC and the host. Over 70 users in Australia and New Zealand.

Memory: **20k**

Price: **\$14500.00 plus, dependent on usage.**

Supplier: **Distributed Data Processing Pty Limited**

Terminal Emulation

This package emulates the Tektronics 4010 terminal giving the PC user access to over 300,000 applications.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$195.00**

Supplier: **Fagan Microprocessor Systems**

Uniscope Communications Card

Allows PC to connect as UTS to standard Uniscope network. Capable of DEC VT100 terminal emulation with software. Connects either modem or terminal multiplexer.

PCs: **Unisys or IBM compatible PC**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Baud Rate: **Up to 19.2 kps**

Price: **\$925.00**

Supplier: **Unisys**

V Graph

This is an ANSI or Tektronics 4010 terminal emulation package. It supports colour and uses an English-like command language.

Op. Sys.: **PC/MS-DOS**

Price: **\$354.00**

Supplier: **Fagan Microprocessor Systems**

VS Com

This is a link between IBM compatible and Wang VS systems. It consists of software for your PC and a single utility program for your Wang. It provides terminal emulation, communication support and document and file transfer.

PCs: **Wang VS, IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Price: **\$1500.00 - \$2328.00 ex tax (\$2010.00 - \$2560.00 including tax)**

Supplier: **System Solutions Pty Limited**

VersaTerm, VersaTerm Pro & HP

A range of sophisticated VT100 or Tektronics (4014 & 4015) emulation packages. They give users access to programs and servers on the mainframe/Unix computer. Versaterm supports the full Macintosh user interface. Versaterm HP emulates HP 2621 and 2624.

Price: **\$225.00 - \$677.00**

Supplier: **Infomagic Australia**

Other Req.: **Networking cable and tap-boxes**

Price: **\$3100.00 ex tax**

NETWORKS

ANNEX (and ANEX)

ANNEX is a hardware and software combination allowing up to 8 terminals to be connected to a PC via the ANNEX box. A controller card in the PC controls the ANNEX box which can have up to 8 video cards installed.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **\$1800.00**

Supplier: **Mace Software**

APC-SNO1/SNO2 Novell Network

Novell's Netware/ON system combines

Novell Netware Operating System software with the OMNINET Transporter card. In a Netware/ON system, as many as 16 NEC APC-IIIs may be networked together. Printers connected to the APC-III acting as the file server may be shared by all the APC-IIIs in the network.

PCs: **NEC APC-III and APC-III Plus**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage Req.: **20Mb**

Other Req.: **Networking cable and tap-boxes**

Price: **\$3100.00 ex tax**

Supplier: **NEC Information Systems**

APC-SNO3 Novell Netware

The NEC Advanced Netware allows either an APC-IV or APC-IV Powermate to act as a file server to a network of either APC-IVs, APC-IV Powermates or APC-IIIs. This allows sharing of information and peripherals between many users. Each file server can support up to sixteen workstations.

PCs: **NEC APC-IV and APC-IV Powermate**

Op. Sys.: **MS-DOS 3.2**

Memory: **640k**

Storage Req.: **20Mb**

Supplier: NEC Information Systems

Altos ENET Local Area Network (LAN)

Conforms to the standard ethernet specification and supports connection to other ethernet systems through transport control protocol/internet protocol. It supports standard Berkeley high-level utilities and allows network access to mainframe gateways through utility software at 10Mbps overall network speed.

PCs: Altos 3068, 2086/1086

Price: P O A

Supplier: Altos Computer Systems

Altos PC Plex

Network software that provides PC users with access to popular minicomputer database and inquiry programs using PC interfaces. It runs over ALTOS Worknet II or an asynchronous link. Supports the databases, Informix, SQL and Unify and provides useful keystroke recording facility for 'batch' transactions and context sensitive help.

PCs: Altos 2086/1086, 886, 3086

Op. Sys.: Xenix Runtime System

Price: P O A

Supplier: Altos Computer Systems

AppleTalk PC Card

Allows connection of a PC/PC compatible machine to the AppleTalk network for the purposes of sharing AppleTalk resources.

PCs: IBM PC & compatibles

Op. Sys.: PC/MS-DOS

Memory: 230k

Price: \$745.00

Supplier: Apple Computer Australia Pty Limited

Appletalk

Generic network system for Macintosh CPU, ImageWriter printer and LaserWriter printers.

PCs: Macintosh, PC compatibles, Apple IIgs

Op. Sys.: Macintosh, PC/MS-DOS, PRODOS

Baud Rate: 230kbps

Price: Various

Supplier: Apple Computer Australia Pty Limited

Arcnet LAN Board (PC100)

Arcnet Boards provide the facility to link

two or more computers so they can share each others peripherals and storage devices. If used with the BOS/LAN operating system, the computers can also service dumb screens as equal workstations on the network.

PCs: IBM PC & compatibles

Op. Sys.: BOS/LAN or other networking o/s.

Memory: 128k

Storage Req.: 450k per computer

Price: Under \$1000.00

Supplier: Soft Centre Pty Ltd

BOS/LAN

BOS/LAN is a unique operating system in that it combines the cost-effectiveness of multi-user computing with the efficiency of Local Area Networking. BOS/LAN can incorporate any number of serial screens as well as computers. BOS/LAN uses omninet, arcnet or ethernet protocols to correct varying brands of computers in one network.

PCs: Any

Memory: 128k

Storage Req.: 450k per computer

Price: \$2400.00 to \$4000.00

Supplier: Soft Centre Pty Ltd

BOS/LAN

BOS/LAN is a unique operating system in that it combines the cost effectiveness of multi-user computing, with the efficiency of local area networking. BOS/LAN can incorporate any number of serial screens as well as computers. BOS/LAN uses omninet, arcnet or ethernet protocols to connect varying levels of computers in one network.

PCs: Large range of micro and mini computers

Memory: 128k

Storage Req.: 450k per computer

Price: \$2400.00 to \$4000.00

Supplier: Soft Centre Pty Ltd

Cluster Adaptor

The IBM Personal Computer Cluster Adaptor provides the ability to connect PCs in a clustered multi-user configuration. PCs and XT's can be connected. Each machine in the cluster requires its own adaptor. Early model PCs (not XT's) may require a net BIOS model. Cabling must be purchased separately. Program support is provided by the PC cluster program.

PCs: IBM PC/XT

Baud Rate: 375 kbps

Price: P O A

Supplier: IBM

Cluster Program

The Cluster Program enables IBM Personal Computers to be used in a clustered, multi-user configuration. Small work groups share a fixed disk and exchange messages and data. Using the Cluster Program, a PC in the cluster can be designated the disk server. The disk is partitioned into one public volume shared by the cluster and one drive volume per remote computer in the cluster. The remaining area is assigned to the disk server. Message and file transfer functions are available whether or not a disk server is included in the cluster.

PCs: IBM PC/XT & compatibles

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 256k

Storage Req.: One diskette drive

Other Req.: One Cluster Adaptor per PC

Price: P O A

Supplier: IBM

Communications Manager

The CX123 is a high speed communications device giving the major benefits of a LAN at a fraction of the cost. It features: transfers of documents between PCs; automatic print spooling; access to external databases; international electronic mail service; sharing expensive peripherals; transfers files between different personal computers; electronic mailing exchange; linking to mini and mainframe computers.

Price: \$3500.00

Supplier: Datamax Pty Ltd

Constellation (II&III) Network Software

Supports IBM PC/XT/AT & compatibles and Apple Macintosh as workstations on a Corvus network. Supports the Corvus Omnidrive as the network server, multiple servers, volume level access, supports LaserWriter and ImageWriter spooling on a Corvus Omninet network for the Mac. Also supports spooling to any type of 9600 baud serial printer.

Price: \$479.00

Supplier: Horizon Computer Corporation

D-LINK Local Area Network

D-LINK is a low cost local area network product which is MS-NET, NETBIOS, IBM PC-NET and Novell compatible. It can support up to 255 users and comes standard with sharing and electronic mail

software, along with tap boxes, instruction manual and cabling.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **256k**

Storage Req.: **Diskette Drives.**

Price: **\$750.00/board**

Supplier: **Eastern Micro Electronics
Company Resources Centre
Pacific Data Corporation**

DRNET

DRNET is networking software for ICL's multi-user multitasking computer. It supports record/file locking across the network and provides full data, file and peripheral sharing.

PCs: **ICL Quattro**

Op. Sys.: **CDOS 3.15 or CDOS 4.1B**

Memory: **512k**

Storage Req.: **10Mb hard disk**

Price: **\$350.00 to \$4000.00 dependant on speed.**

Supplier: **ICL**

Dealing Room On-Line Network Environment

DR-ONE has been designed to integrate all information service requirements such as Reuters, Telerate and Bridge together with a PC decision support software such as Lotus 1-2-3 or Symphony within a multi-functional IBM PC (or compatible) workstation. The system can provide an open-ended capability to interface and integrate with most other systems regardless of vendor software or machine type without host development.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **512k**

Storage Req.: **20Mb hard disk server**

Other Req.: **LAN Based.**

Price: **P O A**

Supplier: **BS Microcomp Pty Limited**

Equinox Data PBX

The Equinox Data PBX is an advanced Data Switching System (often called a Port Selector or Local Area Network), used to connect terminals and computers together in the same way that a voice PABX is used to connect telephones together. The system provides keyboard controlled access and contention to multiple computers and associated destinations without the need for manual plugging of cables or use of patch panels.

PCs: **Any**

Baud Rate: **19.2kps**

Price: **\$1300.00 plus**

Supplier: **Read Computer Engineering
Company Pty**

Ether series user kit

Allows a TIPC etc. to connect to an ether share server and to make use of the available resources on the server, for example disk space, printers, mail system.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.1 or higher**

Memory: **125k**

Storage Req.: **360k**

Baud Rate: **10Mb**

Other Req.: **Etherlink hardware**

Price: **P O A**

Supplier: **Texas Instruments Australia
Limited**

Gates Sys.Network Architecture Interface

G/SNA provides shared PC access to IBM Systems Network Architecture (SNA) networking using SDLC. It supports up to 32 sessions, available to any PC on a G/Net Plus LAN. Supports 3270 and 3770 RJE protocols. G/SNA includes a high speed intelligent communications controller card. This card fits into an expansion slot of any PC on the LAN, this PC becoming a non-dedicated comms server. The board has on-board 80186 processor and 512k dual ported RAM and emulates an IBM 3740 Cluster Controller. The sophisticated G/SNA software provides shared accesses to Gateway for all PC's on LAN.

PCs: **IBM PC/XT/AT & compatibles**

Baud Rate: **Up to 56kbps**

Price: **\$5995.00 to 10595.00**

Supplier: **Micro Networks**

Gateway x.25 Protocol Interface

Multi-user G/x.25 is an x.25 Gateway server for a G/Net Plus LAN. It incorporates the Wide Area Network Card (Z80, 64kb dual ported RAM) which plugs into the expansion slot of a network of stand alone PC's. Several software modules provide appropriate network management functions. G/x.25 can be used as a LAN-LAN Bridge over Datel of Packet Switch Circuits interconnecting multiple G/Net Plus LANs. G/x.25 is compatible with 1980 CCITT x.25 standards. When installed in Telecom hardware is Austpac approved.

PCs: **IBM PC/XT/AT & compatibles**

Baud Rate: **Up to 19.2 kbps**

Price: **\$5995.00**

Supplier: **Micro Networks**

Gateways Network

The very popular G/Net local area network interface card has its own processor and RAM on board. This results in an efficient LAN as the processing power of the workstation is not tied up running the network. It is possible to have up to 255 nodes on the LAN using coax cables. The G/Net LNIM card is very price competitive for an intelligent interface card.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **Novell Netware**

Baud Rate: **1.43 mbps**

Price: **\$1120.00**

IBM PC Network

The IBM PC Network is a low cost, broadband local area network designed for the IBM Personal Computer family. Its advanced technology provides a highly reliable/low maintenance network using a standard CATV co-axial cable and connection hardware.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Price: **P O A**

Supplier: **IBM**

IBM PC Network Adaptor

The IBM PC Network Adaptor is a card for connecting IBM PC's (except PCjr). Each PC requires one Network Adaptor which includes a 3m cable. Extensive diagnostics and self-test capabilities are included. The network can transmit 2Mbps as an RF signal and has 50.75MHz transmit and 219.00MHz receive frequencies.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1 or higher**

Baud Rate: **6MHz**

Other Req.: **IBM PC Network program**

Price: **P O A**

Supplier: **IBM**

IBM PC Network Program

The IBM PC Network Program is a set of software functions which support the operation of IBM Personal Computers, except the PCjr on the IBM PC Network. The services which are provided by the network program are mainly for sharing data and devices among applications in network machines and messages among the network machines.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: PC/MS-DOS 3.1

Memory: 256k

Price: P.O.A

Supplier: IBM

IBM PC Network SNA 3270 Emulation

The IBM PC Network SNA 3270 Emulation Program offers high function communications with an IBM Personal Computer other than PCjr. The program provides a subset to full 3270 function and permits the sharing of SDLC communications facilities to IBM 43XX or 30XX computer systems with other users on the same IBM PC Network.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 256k

Storage Req.: 1 x 360k diskette

Price: P O A

Supplier: IBM

IBM PC Network Translator Unit

The IBM PC Network Translator Unit provides broadband frequency translation, for a passive IBM PC network. It is supplied with a connector assembly for attaching up to eight IBM Personal Computer stations within a radius of 60m (200'). This assembly also has an expansion port for attaching the IBM PC Network Base Expander. It provides low cost network entry, supports up to 72 stations within a 300m (1000') radius with the IBM PC Network Cable Kits and supports up to a maximum of 255 stations within a 300m (1000') radius with a custom cable installation (not offered by IBM).

PCs: IBM PC/XT/AT & compatibles

Baud Rate: Input 50.75MHz, Output 219.00MHz

Price: P O A

Supplier: IBM

IBM Token-Ring Multistation Access Unit

The IBM Token-Ring Network Multistation Access Unit permits the attachment of up to eight devices to the network. Multiple IBM Token-Ring Units can be interconnected to form larger networks, as required, to accommodate up to 260 attaching devices. Each unit automatically bypasses failed devices.

PCs: IBM PC/XT/AT & compatibles

Price: P O A

Supplier: IBM

IBM Token-Ring Network Bridge Program

The IBM Token-Ring Network Bridge Program interconnects IBM Token-Ring Network Rings thereby increasing the allowable number of attaching devices which can communicate within an establishment.

PCs: IBM PC-AT & compatibles

Op. Sys.: MS-DOS 3.2

Memory: 256k

Storage Req.: 1.2Mb diskette

Other Req.: 2 PC Adaptor II

Price: P O A

Supplier: IBM

IBM Token-Ring Network PC Adaptor

The IBM Token-Ring Network PC Adaptor enables an IBM Personal Computer to be attached to an IBM Token-Ring Network. In addition to providing interfaces to the Network, it also contains functions which assist in network management. It requires a full-sized internal expansion slot i.e., the IBM PC Expansion Unit is not supported. A microprocessor on board provides two program interfaces: data link control conforming to the IEEE 802.2 standard and a direct physical interface.

PCs: IBM PC/XT/AT & compatibles

Price: P O A

Supplier: IBM

IBM Token-Ring Network PC Adaptor II

The IBM Token-Ring Network PC Adaptor II operates with the Network Bridge Program for interconnection of IBM Token-Ring Networks. It provides attachment of the IBM System 36 to the IBM Token-Ring Network via an IBM Personal Computer AT. It provides an alternative for attaching for the IBM Personal Computer to the IBM Token-Ring Network. Each Token-Ring Network requires one adaptor to be connected.

PCs: IBM PC/XT/AT & compatibles

Price: P O A

Supplier: IBM

IBM Token-Ring PC Network Interconnector

The IBM Token-Ring Network/IBM PC Network Interconnect Program allows the exchange of information between IBMs attached to the IBM Token-Ring Network and IBMs attached to the IBM PC Network. A dedicated IBM Personal Com-

puter running only the interconnect program is physically attached to both networks. Network application programs to be linked must use NETBIOS communication protocols.

PCs: IBM XT/AT & compatibles

Op. Sys.: MS-DOS 3.1 or higher

Memory: 256k

Storage Req.: 1 diskette drive

Other Req.: Other network, token-ring and hardware

Price: P O A

Supplier: IBM

IDEAnet

IDEAnet is a hardware and software package for creating local area networks. The foremost aim of IDEAnet is to provide resource sharing. IDEAnet provides access to data on hard disks and hard copy of that data by printer. Features: file transfer and locking print spooling and queueing, password/security. Maximum number of users is 20.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 256k

Price: \$2500.00 for starter kit.

Supplier: High Technology Communications Pty Ltd

IDEAshare

IDEAshare is an easy to install, low cost way of networking up to 4 IBM PC's. IDEAshare requires no additional boards as it uses the PC's existing serial ports and standard RS232 connector. User name and password protection are built-in to IDEAshare.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 120k

Other Req.: RS232 port.

Price: \$1100.00

Supplier: High Technology Communications Pty Ltd

Kimtron K-Net

Permits networking of IBM compatible PC's via simple telephone wire over distances to 4000'. Data transfer rate is 100Kbits per second. Floppy disks and hard disks may be shared as through the remote PC had them installed. The fast data rate means no perceptible slow down occurs.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 256k

Baud Rate: Base band 1MHz, data transfer 100KHz

Price: \$1000.00 plus tax

Supplier: Datatel Pty Ltd

LAN Link

LAN Link is a Local Area Networking product that uses serial ports instead of specialised networking hardware boards. Satellite PCs can share the hard disk and printer on the server PC to form a very cost effective LAN. LAN Link provides printer support, file/record locking, task prioritisation, remote satellite support and can be used in conjunction with MultiLink. PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **128k**

Storage Req.: **64k**

Baud Rate: **300bps - 115kbps**

Other Req.: **Serial port required for each attached PC.**

Price: **\$1070.00 ex tax**

Supplier: **UNIXbuilt**

SPS Software Product Support

Pty Ltd

NET/ONE Personal Connection Network

High performance, single board network interface for IBM PC users. Direct access by PC workstations to network-wide hosts and peripheral devices. Disk and printer resource sharing that is transparent to the user. IBM NETBIOS compatibility. Communications media independence. Support of industry standards (802.3, 802.5 token ring; XNS, TCP/IP). Baseband and Boardband networks.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1 or above**

Memory: **512k**

Storage Req.: **Server: hard disk & one floppy drive**

Baud Rate: **10Mbps**

Other Req.: **Server: Personal Network Interface Unit, W/Station: Personal Network Interface Controller.**

Price: **P O A**

Supplier: **Data Bridge Electronic**

Netcommander Sub LAN

A smart asynchronous network sub-LAN providing port selection/ contention management, printer sharing, E-Mail, file transfer and data collection. An intelligent data exchange designed for between 3 to 40 asynchronous serial and parallel computers and peripherals of any combination of models and manufactures. Automatically handles multiple protocols and baud rates while providing a hardware buffer for printer spooling, message store and for-

wards and speed changes.

Baud Rate: **Up to 19.2kbps**

Other Req.: **Asynchronous or synchronous port.**

Price: **P O A**

Supplier: **Data Bridge Electronic**

Network - 488

Share printers, plotters with other IEEE 488 devices, transfer disk files, connect up to 15 PCs or peripherals in any configuration you choose. Powerful and inexpensive resource-sharing software.

PCs: **IBM PC & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **39k**

Other Req.: **CEC IEEE 488 Interface card required.**

Price: **\$150.00 ex tax**

Supplier: **Hales & Rogers Pty Ltd**

Novell Advanced Network/O

Supports Corvus PC, IBM PC, XT, AT or compatible workstations, supports on-miser professional, IBM PCs or compatibles with internal disk drives as network servers, supports file - level network access, includes mail service, includes network print service, supports multiple servers.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS**

Memory: **384k**

Baud Rate: **1Mb**

Price: **\$1900.00 - \$4000.00**

Supplier: **Horizon Computer Corporation**

Infocorp Pty Limited

Micro Networks

Novell Netware Ethernet

Novell Netware Ethernet provides extended multi-user capabilities for IBM or compatible users. It combines Ethernet network topology with Netware user-friendly interfaces. Most MS-DOS applications will run under the Netware operating system. An Ethernet interface board fits into a standard expansion slot and provides the network interface through standard and thin cable ports.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **MS-DOS 2.0 or higher**

Price: **P O A**

Supplier: **Talisman Trading Co**

Data Peripherals

Omninet LAN Boards

Omninet LAN boards provide the capability to connect two or more com-

puters in Local Area Networks.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **BOS/LAN**

Price: **\$690.00**

Supplier: **Soft Centre Pty Ltd**

Orchid PCNet Software (255 user)

Up to 255 nodes per network. 3 levels of data security. Diskless Boot capability. Productivity software supplied - cache ram-disk print spool. Multiple non-dedicated servers. Interactive electron message system. Versatile printer sharing. Device, file, and record locking.

PCs: **IBM PC/XT/AT XT-286 and compatibles**

Op. Sys.: **PC/MS-DOS 2.0, 3.0**

Memory: **256k**

Storage Req.: **User 360k, server 360k HD recommended**

Baud Rate: **1MBit/sec. baseband**

Other Req.: **CSMA/CD Topology - 75 ohm coaxial cabling**

Price: **P O A**

Supplier: **Porchester Computers**

Orchid PCNet Software (50 user)

8 user and 50 user versions available (max no. of nodes). Electronic mail system included. Multiple servers. Diskless Boot capability for workstation. Gateways and bridges. Logi- password security. 8 levels data security. File and record locking. Netbios compatible.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0, 3.0**

Memory: **349k**

Storage Req.: **User 360k, server 20Mb**

Baud Rate: **1 MBit/sec baseband**

Other Req.: **CSMA/CD Topology - ISUG coaxial cabling**

Price: **P O A**

Supplier: **Porchester Computers**

PCcom

PCcom allows direct communication between two personal computers. PCcom offers SNA/SDLC communications at up to 19,200 bps between a central PC and remote PC's one at a time.

PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 2.0 or higher**

Memory: **256k**

Storage Req.: **2 x 360 diskette drives**

Baud Rate: **19,200bps**

Other Req.: **SDLC adaptor, synchronous modem**

Price: **\$515.00**

Supplier: **PCs PLUS**

Starbuilder

The Starbuilder Hardware and Software package integrates the IBM PC/XT/AT and compatibles into a Datapoint Arc Local Area Network. Datapoint provides support for up to 255 devices on one local area network. Datapoint provides a broad range of Gateway and Network products which enhance a Starbuilder PC LAN.
PCs: IBM PC/XT/AT & compatibles
Op. Sys.: PC/MS-DOS 3.1 or above
Memory: 312k
Other Req.: Datapoint file server and Starbuilder software.

Price: P O A

Supplier: Datapoint Corporation Pty Limited

Synctalk

Synctalk allows direct communication between two personal computers. With Synctalk both PCs run the same software and either can control the exchange. Communications of up to 9600bps are possible and password protection, help screens, message exchange and an idle timer are provided.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 2.0 or higher

Memory: 256k

Storage Req.: 2 x 360 diskette drives

Baud Rate: 9600bps

Other Req.: SDLC adaptor, synchronous modem

Price: \$360.00

Supplier: PCs PLUS

TEN-NET

PC's hooking up the network can share the resources including printer, hard disk, etc., on the file server. A maximum of 63 PCs can be supported. Screen monitor, screen broadcast, electronic mail, inter-station chatting etc., facilities are available. Suitable for education and office environments.

PCs: IBM XT/AT & compatibles

Op. Sys.: PC/MS-DOS

Memory: 256k

Storage Req.: 20Mb hard disk

Baud Rate: 1Mb

Price: \$699.00 including tax

Supplier: Efficient Computer Services Pty Ltd

Usernet 286

A sophisticated and advanced Local Area Network operating system supporting up to 100 terminals and 1.75 Gigabytes of shared mass storage. Provides an environment for single user and multi-user MS-DOS applications.

PCs: Unisys PC/microIT and PC/IT

Memory: 640k

Storage Req.: 360k

Other Req.: Requires 80286 CPU

Price: P O A

Supplier: Unisys

Usernet 86

A sophisticated and advanced Local Area Network operating system supporting up to 50 terminals, and 180 Mbytes of shared mass storage. Provides an environment for single user and multi-user MS-DOS applications.

PCs: Unisys PC/HT, PC/microIT and PC/IT

Op. Sys.: PC/MS-DOS

Memory: 640k

Storage Req.: 20Mb

Price: P O A

Supplier: Unisys

Worknet II Local Area Network

Transforms Xenix/Unix systems into a transparent distributed processing environment. Availability on all Altos Computer Systems. Links up to 30 Altos Systems. No special hardware, uses standard network port. Network access to mainframe gateways. Software selectable 8 Mbps or 1.4 Mbps network speeds. Low cost 4-wire twisted pair cabling for easy installation.

PCs: Altos

Op. Sys.: Xenix 3.0rev.A/Unix

VRel.2.2/Worknet II

Price: P O A

Supplier: Altos Computer Systems

SERVERS

AppleShare File Server

Fileserver software for Macintosh to allow data and application sharing over the AppleTalk network. Requires Macintosh Plus as minimum for server machine. Requires Macintosh 512k as minimum workstation machine.

PCs: Macintosh

Memory: 1000k

Storage Req.: 20Mb

Other Req.: Uses AppleTalk network

Price: \$1395.00

Supplier: Apple Computer Australia Pty Limited

Corvus Omnidrive

The Omnidrive is a Winchester disk drive that runs under the Constellation networks. It is fully compatible with IBM PC family and Macintosh and Apple Computers. It can handle a maximum 64 nodes at 1Mb

per second. It stores information up to ten times faster than floppy disk. Bus topology and CSMA/CA access methods. Twisted pair cabling.

PCs: Omnidrive

Op. Sys.: Constellation II & III Networks

Storage Req.: 11 - 126Mb

Baud Rate: 2Mb

Price: \$3700.00 - \$17800.00

Supplier: Horizon Computer Corporation

Ether Share Server Kit

Allows a PC to act as a disk server in a Local Area Network. Large disks may be used (up to 120Mb) and hence shared by a number of Ether TIPC or IBM PC3.

PCs: IBM PC/XT/AT & compatibles

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 512k

Storage Req.: 10Mb Winchester

Baud Rate: 10Mb

Other Req.: Etherlink hardware board,

cables etc.

Price: P O A

Supplier: Texas Instruments Australia Limited

Etherprint Server Kit

Allows a TIPC or TIBP to act as a print server on a network. Up to 3 printers can be connected to the one machine, (in the case of a TIBP).

PCs: IBM PC/XT/AT & compatibles
TIPC, TIBP

Op. Sys.: PC/MS-DOS 2.1 or higher

Memory: 512k

Storage Req.: 10Mb Winchester

Baud Rate: 10Mb

Other Req.: Etherlink hardware

Price: P O A

Supplier: Texas Instruments Australia Limited

IBM Asynch. Comms. Server Program

The IBM Asynchronous Communications Server Program allows networked IBM Personal Computers to share modems and asynchronous communications lines. It ex-

ecutes in background and supports 1 or 2 lines. Additional servers may be run on other PCs in a network to expand the number of lines. Each server allows queuing of calls when all lines are busy and can establish outgoing and accept incoming calls. It can access the ROLM CBX II.
PCs: **IBM PC/XT/AT & compatibles**

Op. Sys.: **PC/MS-DOS 3.1**
Memory: **120k**
Storage Req.: **1 floppy drive**
Other Req.: **Comms. software and hardware**
Price: **P O A**
Supplier: **IBM**

MULTIPLEXERS

Altos Multidrop

Altos Multidrop provides an economical way to connect asynchronous terminals to a single cable, eliminates the need for bulky RS232 cables, increases the maximum distance for terminal connections to 1800 feet and provides a high speed RS422 transmission link. It allows 30 terminal cluster units (TCU) per link and is transparent to software applications. Supports 8 RS232 devices per TCU and provides total connectivity to 240 devices.

PCs: **Altos 3086,2086,1086,3068**

Price: **P O A**

Supplier: **Altos Computer Systems**

Itron Commix PC Switch

The Commix Local-Area Switch is compatible with most popular software using serial communications. Using the Hayes modem-compatible protocol for connection requests, the Commix 32 treats each port address as a telephone extension number, simplifying common tasks such as sharing a printer, electronic mail or accessing a host computer. Used with multi-tasking software for MS-DOS, the Commix 32 allows PCs to access disk files or send electronic mail anytime, whether the called PC is in use or idle.

Price: **16 channels \$4700.00 ex tax, 32**

channels **\$7200.00 ex tax**
Supplier: **Infotron Systems Pty Limited**

Multiplexer - NPX 25

The NPX 25 operates in pairs to provide remote data communications to computers, printers and terminals, effecting substantial line cost savings by concentrating the data onto a single Telecom line. The NPX 25 can provide from 4 to 32 channels with networking if required.

PCs: **Any**

Baud Rate: **Up to 19.2kbps**

Price: **P O A**

Supplier: **Read Computer Engineering Company Pty**

Persyst DCP/MUX Communications Processor

Designed specifically for use with Xenix, this DCP/MUX increases performance by offloading the communication functions of up to eight user terminals. An on-board 80286 processor controls the eight additional asynchronous, full duplex, RS232C serial ports increasing the multi-user capacity to 11 users. It includes up to 512k of main memory.

PCs: **IBM PC/AT & compatibles**

Op. Sys.: **Xenix**

Price: **\$1900.00 - \$2700.00**
Supplier: **Emulex Corporation**

R.C.E.-8 Multiplexer

The RCE-8 Local Multiplexer provides a simple, low-cost way to send data up to 1000 metres from 8 terminals over a single cable. Instead of running separate cables for each terminal the RCE-8 connects small clusters of terminals to computers located within the same or adjacent buildings.

PCs: **Any**

Baud Rate: **Up to 9600bps**

Price: **\$800.00**

Supplier: **Read Computer Engineering Company Pty**

Shuttle Multiport Controller

The Multiport Controller is an RS232 or RS422 device to allow expansion of a computers single communications port to 4, 8, 11, or 17 individual ports. Units can be preconfigured to operate as port expanders, multiplexers, networkers, printer sharers, or port contenders and are all software controlled.

Baud Rate: **Up to 19200bps**

Price: **\$890.00 - \$4195.00**

Supplier:

Shuttle Datacomm Pty Limited

MISCELLANEOUS

Contest - Data Communications Testers

Data communications testing tools for service and sales engineers. The Comtest V24 features the monitoring (Tri State) of all signals (23), the breaking and patching of all lines (25) and the current loop test and open circuit voltage test. The Comtest X21 has the same features and Comtest V24, a multilevel pulse trap with buzzer

signaling, line impedance test and a RS232 adaptor.

Price: **P O A**

Supplier: **Testronic**

Data Encryption

The Ran Data Encryptor is a scrambling device for protecting information transmitted over common carrier networks. These devices are used to make information transferred from computer based

equipment indecipherable to unauthorised persons. The Encryptor is a plug in device, that uses a complex set of mathematical codes (algorithms) developed by Ran Data to ensure maximum security. By utilising micro processor technology many features and applications are made available allowing the Ran Data Encryptor to cater for most computer applications.

Price: **\$2000.00 - \$3000.00**

Supplier: **Ran Data Corporation Ltd**

Greenleaf Communications

A library of communications functions written in C. Capable of handling Simultaneous RS232 ports. These functions cover Asynchronous and Interrupt driven communications, modem control, Xmodem, XON/XOFF and flow control.
PCs: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS**
Price: **\$404.00**
Supplier: **Fagan Microprocessor Systems**

IBM PROFS/PC(2) Connection Program

PROFS Personal Computer Connection (PROFS/PC(2)) extends selected PROFS functions to the IBM Personal Computer. It is designed for the business professional who needs the decision-making tools available on the Personal Computer as well as the principal support functions available on the PROFS system. PROFS information can be sent to a PC for stand alone processing and results transfer to PROFS for distribution or processing.
PCs: **IBM PC/XT/AT & compatibles**
Op. Sys.: **PC/MS-DOS 2.0 or higher**
Memory: **256k**
Storage Req.: **360k**
Other Req.: **3270 emulation hardware**
Price: **P O A**
Supplier: **IBM**

IBM Token-Ring Network Manager

The IBM Token-Ring Network Manager is a program for the IBM Personal Computer. The program assists the user in problem determination and error recovery for the IBM Token-Ring Network, a high-speed Local Area Network.
PCs: **IBM PC/XT/AT & compatibles**
Op. Sys.: **MS-DOS 3.2**
Memory: **512k**
Storage Req.: **2 x 360k diskettes**
Price: **P O A**
Supplier: **IBM**

Port Switch

The Port Switch is a family of peripheral selection switches. They are available from two of something to one of something else, up to and including five to one, or a crossover, two from two with push button interchange. Serial, parallel or special protocol. Complete with all cables and connectors.
Price: **P O A**

Supplier: **Kent Design**

Shuttle Error Free

Error Free is a stand alone device providing error-free transmission of data over most dial-up 300 - 2400 modems by using MNP error checking technique.
Baud Rate: **300, 1200, 2400 bps**
Price: **\$450.00**
Supplier: **Shuttle Datacomm Pty Limited**

Shuttle Modem Accelerator

Modem Accelerator is a multifunction board to allow the transmission of data between PCs either directly or by any modem to be increased up to 3 times. Using data compression techniques it can also store ASCII data in about one third usual disk space. It also includes encryption for data security.

Baud Rate: **75 to 19200 bps**
Price: **\$795.00**
Supplier: **Shuttle Datacomm Pty Limited**

'Comtest' Communications Testers

A family of data communications interface testers, comprising testers for: V24/RS232; X21,20,22/V10 -11/RS232; Centronics and cable tester. Full interface monitoring and all signal lines breaking. In built test functions: open circuit voltage, current loop, line impedance, multi-level pulse traps. They are designed and priced as Datacomm tools for service and maintenance technicians, computer salesmen, R & D engineers, academics and tech students.
Price: **Comtest V24 \$300.00; Comtest X21 \$470.00 ex tax**
Supplier: **Testronic**

SEAdog

FROM THE PROGRAMMERS WHO BROUGHT YOU ARC, NOW COMES SEAdog THE ELECTRONIC MAIL SYSTEM.

SEAdog faithfully sends and retrieves electronic mail from one PC or from hundreds.

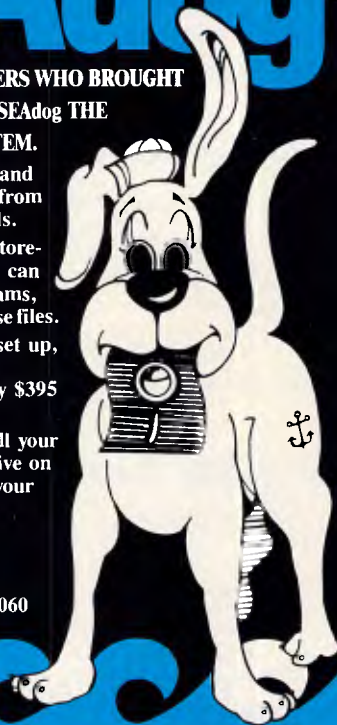
SEAdog's sophisticated store-and-forward mail system can process messages, programs, spreadsheets and data base files.

The system is simple to set up, uses standard telephone equipment and costs only \$395 per station.

For more information call your faithful SEA representative on PH: 922 6658. They'll be your best friend for life!!!

SEA

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NORTH SYDNEY NSW 2060
PH: (02) 922 6658



Accessories

Unlike the rest of this directory, entries in this chapter are listed by company name. We have covered a broad range of companies that supply the various bits and pieces that you need as you use your computer. Some companies supply a broad range of products, from printer supplies to computer furniture, they are listed in the General Supplies section of this chapter.

In the Cables section we have included firms that provide cables or products

specifically to do with connecting computers and other devices. Some of these provide cables for connection of their own hardware, others are companies that specialise in providing cabling for a range of hardware or purposes.

The computer can be a source of great untidiness with all its peripheral devices and supplies of paper and diskettes. To avoid this and to ensure that they are reasonably comfortable to use it is important that a computer is well set up. Many suppliers have developed furniture to

facilitate this and are listed here.

There are also a range of other accessory suppliers listed here. Some provide diskettes or other storage media, others deal specifically with stationery and printer supplies, others with devices that ensure the security of your system. In the Miscellaneous section of this chapter there are a range of products for a variety of purposes from protecting your keyboard from coffee spills to carrying your hardware around.

Applix Pty Ltd

Hardware add-ons and accessories for Apple II, II+, IIe & IIC and compatibles. Supplies include: disk notchers \$8.95; joysticks from \$34.95; cooling fans \$59.95; numeric keypads (IIe) \$39.93; RF modulators \$24.95; Z80 cards \$60.00. NSW

Automation Facilities

Suppliers of a comprehensive range of computer cleaning and maintenance products. NSW

Carrycom (Australia)

Carrycom (Australia) supports the computer industry with a range of disk storage boxes, printer stands, cleaning and maintenance products, desktop acoustic hoods, head cleaning kits, disk pack cases, magnetic tape cases, security case, tool case and pallet, as well as a binding service for documents, reports, pricelists, manuals, etc. QLD VIC

Computer Office Supplies

Computer Office Supplies import a range of computer supplies and accessories which they supply to computer retail outlets, office suppliers, stationers and major retail chains. These products include: disk storage, disk head cleaning kits, monitor stand, keyboard cover/copy holder (for IBM), screen filters, printer stands, copy holder A4/A3, dust cover, screen wipes. They retail a complete range of printer ribbons, diskettes, magnetic tapes, magnetic tape storage, binder and binder storage, ergonomic furniture, acoustic hoods, shred-

ders, as well as most other supplies that you would need to run a computer. VIC

Computer Resources Company

Suppliers of continuous stationery and labels, magnetic media, binders and binder storage equipment, computer room furniture, computer ribbons. NSW

Computer Supplies (Australia) Pty Ltd

Suppliers of Verbatim diskettes and cassettes, data cartridges; OPTIM printer ribbons and BASF computer tape. Also paper, computer furniture, cables, acoustic hoods and non-glare screens. NSW

Computermate Products (Aust)

Supreme 5 1/2" DSDD 18tpi and 3 1/2" DSDD diskettes. Wide range of printer ribbons. Printer stands and paper organisers. Printer stationery (paper and labels). Printer cables for Amiga, Amstrad, Commodore and PC compatibles. Computer books - Que, Microsoft, Corgi and Bantam, Hayden, Pitman. Data care accessories. Suncom/TAC joysticks. Competition Pro 5000 joysticks. NSW

Darwin Data

A large range of supplies, including listing paper, single and multi business forms, stock or tailored continuous envelopes, matching WP paper. Ribbons, disks, tapes,

belts, bands, hoods. Anti-static head cleaners, anti-glare. Desks, stands, chairs, racks. Cables, boards, buffers, switches, chips, decollaters, bursters, shredders. NT

Data Parts

Big range of accessories including: Dataland branded ribbons and paper; DSDD 5 1/4" disks, SSDD 5 1/4" disks, manufactured by Verbatim in plastic library boxes, ten year warranty. VIC

Efficient Computer Services Pty Ltd

Provide fixed note maintenance services for IBM PC/XT/AT (e.g. motherboard \$90.00, add-on cards \$70.00). Diskettes @ \$22.00 box of ten. 360k National floppy disk drives @ \$200.00. Star NX-10 printers. NSW

Hales & Rogers Pty Ltd

Installation of Osborne and Chendai PCs. Maintenance is available for Osborne and Chendai machines. Hard disk installation is available for most PCs. Floppy disks from \$30.00 including tax per box of ten, printer paper and ribbons for Brother, Epson, NEC and Nakajima in stock, printer cables for IBM and compatibles from \$30.00. NSW

Hewlett-Packard Australia Limited

Hewlett-Packard offers a complete range

Connectivity =



Opal Advanced Workstation Software

Opal AWS can turn an Apple Macintosh 512K or Plus into an intelligent workstation for you:

ADDS, Altos, AT&T, AWA, Burroughs, Concurrent, Convergent Technology, Data General, Datapoint, DEC, Fortune, Fujitsu, IBM, McDonnell-Douglas, NCR, Olivetti, Perkin-Elmer, Pertec, Prime, Pyramid, Sequent, Sigma Data, Ultimate, Univac, Wang, Wicat or other mini or mainframe computer.

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FEATURES:

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- Prevents theft — guaranteed

Computer theft is rising sharply, especially among the most popular machines. Like your Mac. The Mac is powerful, portable — and easily re-sold.

You need the **Anchor Pad** solution, the maximum security locking device for business machines. For less than 5 per cent of the recommended cost of a new Mac SE you can secure your Macintosh and hardware peripherals against theft. Without drilling holes in your Mac or your furniture, our exclusive, patented **Anchor Pad** will secure your Mac with more than 2000 Kilograms of gripping force. Yet you can remove it easily with a key.

We Protect It. Or We Replace It.

It's that simple. Over 500,000 Anchor Pads have been installed since 1972. We are so certain our sure-grip Anchor Pad will prevent theft that we offer you our "No Theft Pledge"

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(Aust.)
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Dealers:

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★ Offer void if not installed by an authorised Anchor Pad service representative.

of computer supplies and consumables for PC and peripheral products.
VIC

Hytec Electronic Pty Ltd

Hytec supply floppy disks DS/DD from \$1.00 each, tape backup systems 10 - 60Mb from \$900.00, most popular brands of ribbon. Computer maintenance on site at West Ryde. Also available is a range of storage media, printer supplies and stationery.

NSW

International Accessory Distributors Pty

A manufacturer and distributor supplying continuous feed paper, packs of 300, 600, 1200, 2400 continuous feed envelopes, top quality blank disks with lifetime guarantee at \$2.90 - \$3.20, disk boxes from 5 to 120 cap., super multifunction box holds 120 x 5 1/4", 3" or 3 1/2" disks, 24 compact disks, or 10 data cassettes. There is also a variety of furniture and disk cleaning kits. Paper, disks and chairs are Australian made and

distributed nationally.
VIC

J C Fagg Computer Supplies Pty Ltd

One Stop Shop for computer and office supplies.

NSW

Micro Venturers

Computer paper. Continuous-fold plain bond 11" x 9.5" 70 gsm, 2500 sheets @ \$38.00. Also smaller quantities of paper - 1000 @ \$17.00, 500 @ \$10.00. Computer labels two wide 2500 102 x 36mm \$27.00, 96 x 23mm \$19.00. Also smaller quantities of labels. 96 x 23mm 1000 @ \$10.50, 102 x 36mm 1000 @ \$15.00. Disks. Imagineering Le Floppy box of ten \$19.00 SSDD. SKC DSDD box of ten \$19.00, SKC coloured - five mixed colours in plastic box of ten \$22.00.

SA

Modem Cabinets Pty Ltd

Specialists in modem cabinets, shelving or

racking.
NSW

NCR Australia Pty Limited

Suppliers of floppy disks, disk packs, storage, cleaning aids, ergonomic furniture and stationery.

NSW

Office World Pty Ltd

Suppliers of computer paper, labels, diskettes, ribbons and furniture.

NSW

PPS Australia Pty Limited

Ergonomic/safety products for computer workplace. Sole importer/Australian agent for Periphlex anti-glare filters, Radex radiation shields for VDUs. Sole marketer for Periphlex wristrests/footrests. Distributor for Ericsson and Quatre ergonomic furniture and sound hoods (Quatre). Distributor of Technalock computer security system. Distributor LEDU copyholders, distributor of dust covers for VDUs, the Universal

DATA SECURITY FOR YOUR IBM THAT'S EVEN EASIER THAN CALLING US

A hardware and software system, CyLock authenticates your personal password and then matches airtight system codes against encrypted codes stored on a memory chip encased in a plastic key. Authorised users get keys. Others don't.

CyLock gives you complete management control over PC access and data protection with file encryption, user authorisation, and a comprehensive audit trail. Simple. Complete. Effective.

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PTY LTD**

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DRUMMOYNE 2047**



*Data security ought to be simple, complete, effective.
CyLock PC Access and Data Protection is.*

Ergo arm.
NSW

Parity Computer Limited

Parity provide maintenance services for a wide range of machines and supply furniture, various sizes of computer print out paper at competitive prices, stationery, labels, diskettes, etc.

NSW

Storage Master Media

Computer supplies: magnetic media, data storage peripherals and a diskette formatting and duplication service.

NSW

The Australian Computer Consumables Co

This company supplies diskettes and other magnetic media, printer ribbons, storage units, computer labels and binders, ergonomic furniture, acoustic hoods and

general office stationery and equipment.
NSW

The Printer Specialists

A large range of goods including ribbons, diskettes and paper.

NSW

Unistat Pty Ltd

Computer label specialist for computers, tapes and diskettes.

NSW

Vaughan K G Pty Ltd

This company supplies computer binders, paper ribbons and print wheels, diskettes etc.

NSW

Wilboprint & Computer Supplies

A complete supply of consumables for the computer industry. Products include computer stationery, word processing letterheads, Memorex magnetic media, com-

puter ribbons, ergonomic furniture, computer cleaning products, printout binders and storage devices. Send for a free 40 page colour catalogue. Viatel services supplier; toll free phone order; credit card facilities and freepost mailing services designed to facilitate easy placement of orders. Deal Australia-wide.

NSW

Xidex Pty Ltd

Anti-glare screens for PC monitors, vesicular duplicating films and silver films for micro graphic use, a range of furniture and acoustic hoods and storage media.

NSW VIC ACT

de Vere Computer Accessories Pty Ltd

Suppliers of Le Disc, ergonomics, microcomputer accessories, computer magnetics, continuous stationery, ribbons and labels. A 24hr emergency service.

NSW VIC

CABLES

Bertech Communications Products

This company manufactures and markets a wide range of computer communications equipment and accessories. The company's 'cable garden' product portfolio includes bulk data cable, connectors, data cable assemblies, data switches, patching panels and racks, interface equipment, security equipment and test and diagnostic equipment. Further equipment within the Bertech communications products portfolio includes the Bertech cable management system for flexible, cost-effective building cabling, and a range of modems and multiplexers for professional use.

VIC

IBM

IBM supply a full range of cables and connectors for their devices.

NSW VIC TAS QLD SA WA

Integral Fibre Systems Pty Limited

Fibre Optics Cables, Modems & Connectors
Integral Fibre Systems is a manufacturer

of fibre optic modems to suit RS232 and RS422 signal protocols. These products are supported with a wide range of optical connectors and cables. Integral fibre systems can also supply Orionics (USA) fusion splicers and Aster (USA) single mode couplers.

NSW

Kent Design

SMALLtalk

The SMALLtalk network coupler is functionally equivalent to an Appletalk connector kit. SMALLtalk is designed for permanent installation, with the network wiring safely out of sight. The mounting plate provided is dimensionally equivalent to a powerpoint. Kent Design can supply suitable cables to all Apple equipment capable of running on the network.

VIC

Kent Design

Interface Cables

Kent Design manufacture custom serial cables. Their extensive files contain most common combinations, and they stock or have access to a wide range of connectors and cables. They also supply the 8-pin 'mini Din' plug for Apples and the Epson portable. Kent Design can supply single ended cables or complete assemblies, adap-

tors for Thunderscan or other 512 Peripherals.

VIC

Logo Computer Centre

Logo cables from \$18.00 to \$24.00. High quality shielded PC cables for IBM to Centronics, Centronics to Centronics and Centronics to Serial. Two metre and three metre standard lengths.

NSW

MACINTOSH NETWORK?

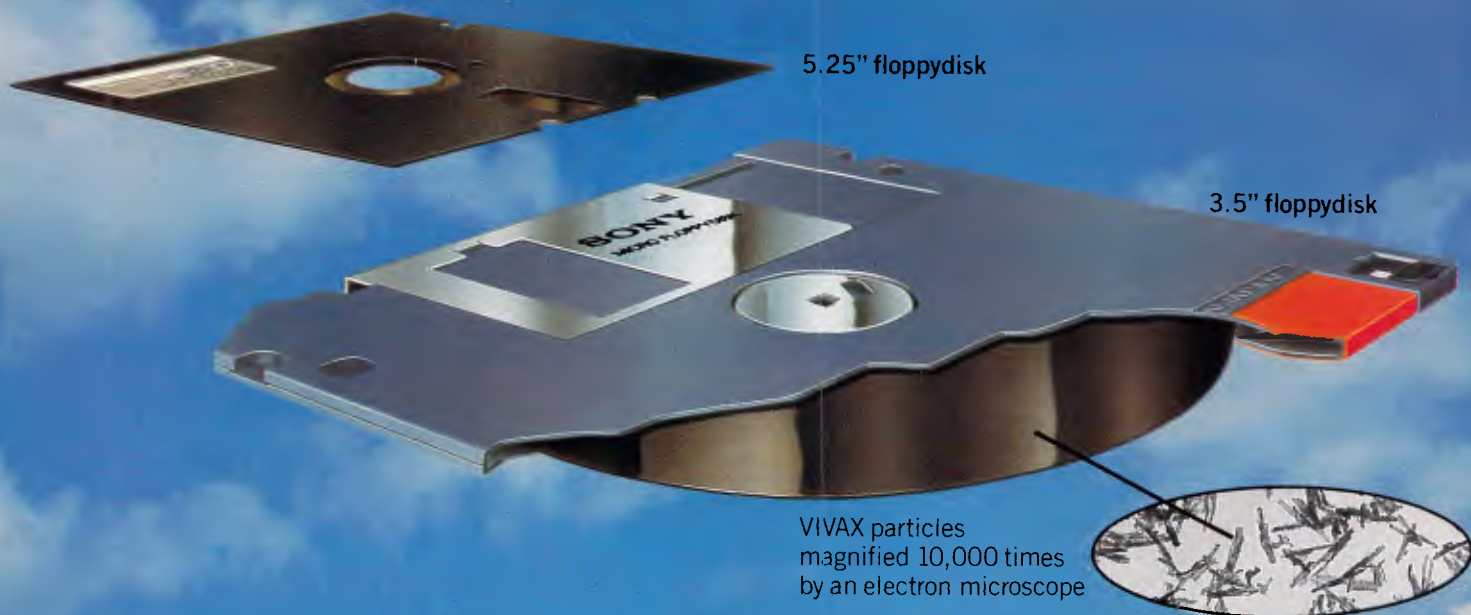


same size as a power point

SMALLTALK by KENT DESIGN - Permanent
- Inexpensive Cable functionally equivalent to Appletalk™.

10A CLAREMONT AVE. MALVERN 3144
(03) 509 8751

KENT DESIGN



Sony Floppydisks. Certified 100% error free -thanks to VIVAX.

At Sony, we have found it's usually attention to very small details that makes a very big difference.

The unique layer of magnetic VIVAX particles on our 3.5" and newly released 5.25" Floppydisks is a perfect example. The VIVAX layer reduces noise which can result in data errors and raises the signal to noise ratio for maximum accuracy and greater reliability.

Quite simply, VIVAX means Sony Floppydisks can be certified 100% error free.

Sony Floppydisks also incorporate Sony's DDL System (Durability, Dispersion and Lubrication) which ensures the disk retains its maximum magnetic properties even under friction at a wide range of temperatures and humidities.

VIVAX and the DDL System were a logical extension of our video tape leadership into computer technology. Today you'll find most major television stations and production houses around Australia relying on Sony hardware and magnetic media products.

You can expect the same high engineering standards and manufacturing technology that our video tape customers have received for many years. (For example we guarantee our Floppydisks for as many as 20 million passes of the head.)

And you can look forward to our guarantee of consistent quality and continuity of supply from Sony Magnetic Media Division.

You can also expect many more computer-related innovations from Sony, the people who invented the 3.5" disk drive and the 3.5" Floppydisk. And now give you the guarantee of Floppydisks with perfect memory.

Available at your specialist computer shop. Or contact Sony Magnetic Media Division.

Sydney (02) 887 6666, Melbourne (03) 836 4011, Brisbane (07) 44 6554, Adelaide (08) 212 2877, Auckland (09) 444 8888



SONY®

MAGNETIC MEDIA DIVISION

Arthur Stutchbury (Office Furniture)

Suppliers of furniture for computers and word processors, the range including: workstations, printer stands, copyholders and printout binders.

NSW

CPM Data Systems Pty Limited

CPM Data Systems provide: computer furniture, mass storage media supplies, full range of computer paper, printer ribbons to most makes, mailing labels, binders, trolleys. They also rent systems for periods over six months and offer hardware maintenance and repair.

VIC

Chubb Australia Ltd (Lock & Safe Divn)

Chubb Micro Computer Cabinet

The Chubb Microcomputer Cabinet is ideal for the storage of magnetic media. Specifically designed for the protection of floppy disks, the cabinet has successfully passed the Underwriters Laboratories of America and the German VDMA standard for diskette protection. It incorporates a complex multi-layer of insulation and will give protection right at the work station. The Micro Cabinet offers protection against fire, dust, electrostatic damage, magnetic fields, humidity, unauthorised ac-

cess and pilferage.

NSW ACT QLD VIC SA WA TAS

Eastern Micro Electronics

Profound Computer Shuttle

EME currently manufactures the new Profound Computer Shuttle in Australia. This piece of furniture is designed to house a system unit, monitor, printer, keyboard, printer paper and disks. The entire unit is portable and fits comfortably through an office door for moving from office to office.

VIC

Forsyth Office Fur- nishers

Computer/Ergonomic furniture specialists. Free planning and consultancy.

NSW

IBM

IBM PC AT Floor Standing Enclosure

The IBM Personal Computer AT Floor Standing Enclosure is a housing which enables the IBM Personal Computer AT system unit to be mounted vertically. The unit can be placed on the floor adjacent to or below the workspace, leaving only the display and keyboard on the work surface.

NSW VIC TAS QLD SA WA

Kent Design

Kent Design manufacture a range of mechanical hardware including 25D non rotating panel female lockups, cable join-

ing lockups, sex change/patch box housing, wall plates and 19" rack panels, plastic moulded instrument case, face plates etc. Specialist supplier of low volume custom hardware.

VIC

NEC Information Sys- tems Australia Pty

NEC is a distributor of the micro-shuttle PC stands. They have two models available, suitable for most types of PCs. Both models are ergonomically designed and there are a variety of accessories available. These include document holders, paper tray, removable side table and a dust cover. The standard model sells for a recommended retail price (ex tax) of \$500.00 and the upper class model sells for a recommended retail price (ex tax) of \$775.00.

NSW VIC QLD TAS SA WA

Sylex Ergonomics

Manufacturers and distributors of computer furniture and accessories, flexible workstation, anti-static mats. Also among the range of products are printer stations, monitor arms, copy holders, diskette boxes, VDU anti-glare filters and keyboard slides.

NSW

Xidex Pty Ltd

Xidex provide a range of ergonomic and computer room furniture.

NSW VIC ACT

Advance Peripherals Pty Ltd

Diskettes double density double sided 5 1/4". Made in Australia.

NSW

Centech Australia

Centech Diskettes

The range of 14 different coloured diskettes enable organisation, filing, security systems to be located quickly and easily. Centech diskettes are designed, engineered and manufactured in the USA to specifications and standards that exceed those developed by the industry. Every diskette is tested and certified to be 100% error-free beyond 75% clipping level. Centech diskettes also offer permanent stamping of your company's name and logo on the diskette jack-

et for easy identification and security uses.

QLD

Data Disks & Acces- sories (Australia)

Data Disks & Accessories distribute Centech's colour diskettes in Queensland and Victoria. These are coloured diskettes available in 14 colours in 8 inch, 5 1/4", and 3 1/2" (six colours) in various densities. QLD

Fujimex (A division of Hanimex Pty Ltd)

Importers of Fuji Film floppy disks. Fuji Film has a new series of high quality floppy disks. A complete range of 8 inch, 5 1/4" and 3 1/2" disks are available. All disks are certified and tested 100% error-free,

coupled with a lifetime replacement warranty. NSW

Mecom Pty Ltd

Magnetic tapes, tape cartridges, diskettes, ribbons, furniture.

NSW

Micro-Educational

Micro-Educational specialises in low cost blank floppy disks. The disks are high quality, manufactured by Wabash Datatech in the USA. Each disk is individually certified and guaranteed for life. Single sided 5 1/4" disks are \$1.45 each. Double sided 5 1/4" disks are \$1.90 each. Double sided 3 1/2" disks are \$4.95 each. They also sell ribbons, disk storage boxes and expansion cartridges. cards NSW

PERIPHERAL PRODUCTS THE ACCESSORIES TURN PCs INTO WORK STATIONS



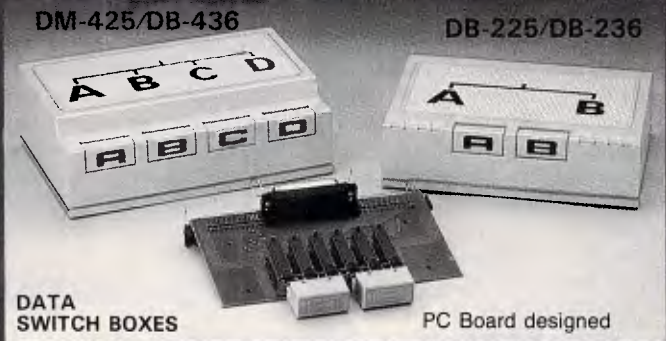
Model KB-250
Keyboard Drawer
Dimensions:
21.7" x 15.6" x 3.2"
(WxDxH)



Model JCH-302
Copy Holder
with Adjustable Arm

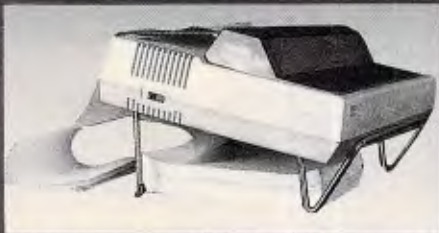


Model KB-252 ▲
Keyboard Drawer with 5-outlet Control Center

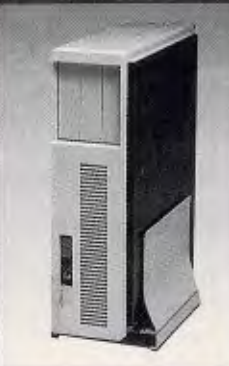
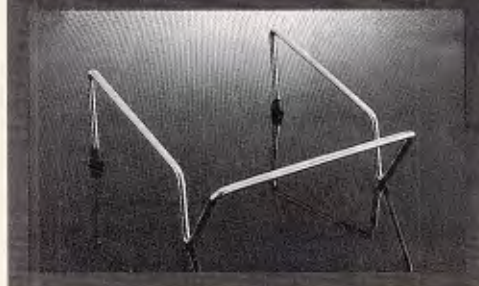


DATA
SWITCH BOXES

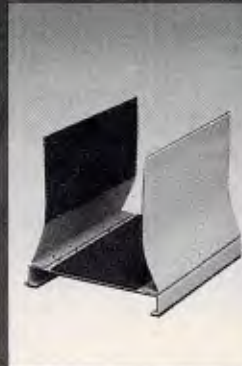
PC Board designed



▲ Printer / Plotter / Digitizer Stands
Model: PST-002 11.8" x 13.4" x 5.3" (WxDxH)
Model: PST-003 17.7" x 13.4" x 5.3" (WxDxH)



Vertical Computer Stand ▲
Model: CST-001 8.3" x 11.0" x 9.0" (WxDxH)



Hard Disk Drive ▼
Cabinet
Model: HD-180
7.1" x 15.7" x 5.2" (WxDxH)



P.O. Box 9-374, Taipei 10402, Taiwan, R.O.C.
Telex: 27556 TPKAICO Cable: "KIC-AUTO"
Tel: (02)541-8630/2 Fax: 886-2-542-2255

JET COMPUTER CORP.

Nashua Discs (NSW)

Nashua Discs (NSW) are a manufacturer and supplier of diskettes, disk packs, and disk cartridges
NSW

Output Media Pty Ltd

Manufacturers of business forms, suppliers of general stationery, diskettes, data cartridges, magnetic tapes and ribbons, all 3M media, bursters and decollators.
NSW

Specialist Software

Importers and wholesalers of high quality 5 1/4" and 3 1/2" floppy diskettes with five year warranty. Suppliers to Government, education and business. Phone or write for current best prices. Mail or telephone

order available. Payment accepted by cheque, Bankcard, Mastercard.
SA

Stamford Industries Pty Limited

Manufacturer of disk pack, magnetic tape cases and fabricated aluminium cases for storage and transportation of all types of computer tapes and equipment.
NSW VIC

Telex Computer Products International

Telex is a major manufacturer of IBM compatible communications controllers, and workstations, airline and travel industry network systems, magnetic tape systems and printers. Telex is able to supply a

wide range of media and other 'consumable' items including floppy disks, ribbon cassettes, daisywheels and laser printer consumables and kits.
NSW SA QLD ACT NT TAS VIC WA

Verbatim Australia Pty Ltd

The Verbatim DATALIFE range of magnetic media includes 5 1/4", 3 1/2" and 8" floppy disks, data tape, data cartridges and data cassettes. High density 5 1/4" and 3 1/2" floppy disks are also available. 3.3Mb, 6.6Mb and 5 1/4" floppy disks and disk drive are being introduced. Contact state offices for your local dealer or call the Verbatim Hotline from anywhere in Australia, local call fee only: 008 02 2023.
NSW VIC

ASSCO (Vic) Pty Ltd

Full range of advanced drafting supplies. Staedtler, Reform and Hewlett-Packard pens, roller balls and tips and points. Wide range of plotting media papers, films, transparencies, etc. ASSCO is a full service dealer with a wide range of general computer supplies, including rental and maintenance.
VIC

Avery Label (Australia) Limited

Manufacturers and suppliers of self adhesive labels to suit the majority of printers including laser. 'Off the shelf' range of stock sizes to suit most common computers and application parameters. Custom-made labels to your design and size in up to seven colours and covering applications from sub zero temperature conditions to 470mm form width.
NSW

Computer Paper

Continuous forms for software systems plain or printed. Small quantities and low cost.
NSW

Datamatic Pty Ltd

Consumables for computer aided drafting systems. Complete range of supplies for all plotters, including pen plotters, electros-

tatic plotter and ink jet printer.
NSW SA QLD ACT NT TAS VIC WA

Fordigraph

Suppliers of bursters and decollators which automatically burst continuous computer forms and separates carbon.
NSW

G James Pty Limited

Acoustic printer hoods to suit most continuous paper printers.
QLD

Graphastat

Graphastat provide a full range of pictures and plotters, and associated products. They carry many hard to find items including cables, drivers, certain media, pens etc.
NSW

Infocorp Pty Limited

Plotter supplies
Staedtler Marsplot drafting tools for plotters. Available for a large range of makes including Hewlett-Packard. Fibre tip plot cartridge for HP 7221, 7225, 7474, 7475, 7550 and 9872. Ten colours available. Pack of five per colour. \$23.60.

NSW VIC Jacpaper Australia Pty Ltd

Suppliers of labels for computers, copiers

and for franking.
NSW

Mitsui Computer Limited

Mitsui Computer Limited offer a wide range of products to both the retail and dealer market. Most products offered are sourced directly from the manufacturer. Mitsui computer market the following brands: Printwheels - DEC, Diablo, Fujitsu, ITS, Juki, Microline, Philips, Seikosha and Xerox. Laser supplies - Ricoh, DEC. Full range of supplies and accessories. Diskettes - Fuji. Fax paper - thermal facsimile paper rolls to suit Toshiba facsimile machines. Mitsui Computer are also distributors for the Sylex range of ergonomic furniture, acoustic hoods and accessories, including diskette storage and anti-glare screens.
NSW

Moore Business Systems (Australia) Ltd

Suppliers of continuous stationery and equipment including disk storage and filing systems, graphic design and magnetic media products, speedi mailer and carrier. Also available is a forms management service and cheque printing and encoding.
NSW

The Power Screen 4-in-1 filter.

The only anti-glare, anti-static, anti-VLF radiation, and contrast enhancing screen

Are you tired from long hours of squinting into your CRT? Worried about VLF radiation? Afraid of static damage to delicate hardware and software? Then get peace of mind with Power Screen the 4-in-1 filter that cuts glare, enhances contrast, grounds off static AND suppresses VLF radiation!

Power Screen's specially formulated Micro Weave Mesh relieves eye fatigue by trapping reflected glare light. Actually makes characters appear clearer and sharper.

Power Screen also grounds off harmful static charges that accumulate on the face of your terminal, preventing airborne dust from becoming charged and irritating your eyes and skin. Also prevents static zaps that damage costly equipment and software.

*Fits any VDU. There are over 800 standard sizes.
Special sizes are custom made — free of charge*

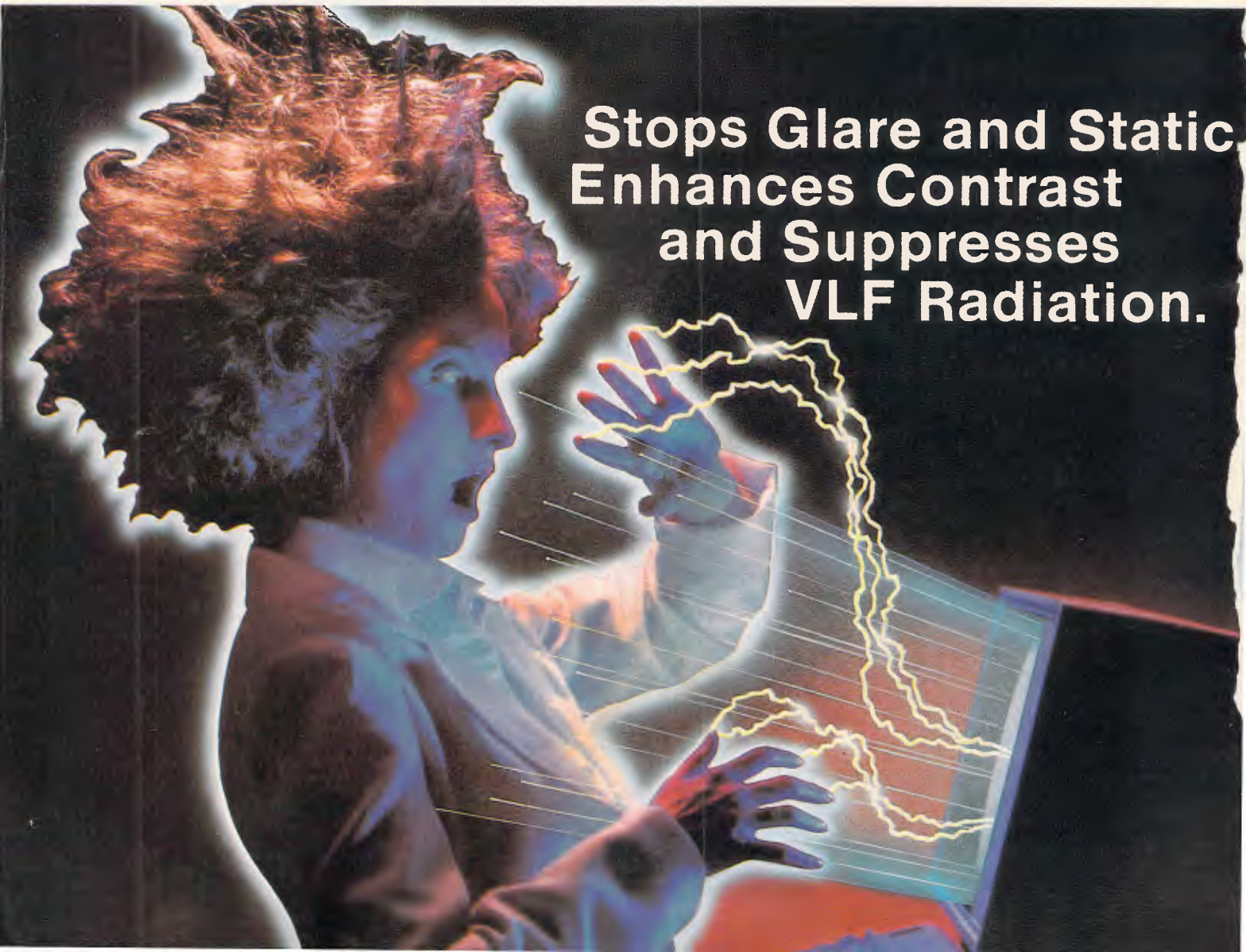
Finally, Power Screen suppresses Very Low Frequency (VLF) radiation emitted by your terminal screen. Provides peace of mind for comfortable, productive work. Power Screen is also suitable for Tempest applications for information security.

Take the worry out of your work--get the Power Screen 4-in-1 filter today!

SWEDISH POWER SYSTEMS PTY LTD

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Telephone: (02) 437 6296

DEALER ENQUIRIES WELCOME

A woman with curly hair is shown in profile, looking at a computer screen. A bright, jagged lightning bolt effect emanates from the screen, striking her hand which is raised towards it. The background is dark, and the lighting is dramatic, highlighting the woman's hair and the screen.

**Stops Glare and Static
Enhances Contrast
and Suppresses
VLF Radiation.**

NEC Information Systems Australia Pty

NEC/ISA sell a whole range of quality ribbons and thimbles suitable for all NEC printers. They are available through the dealer network. NEC has appointed several consumable-only dealers who always carry NEC consumable stock. Dealer details are available from the local NEC branch.
NSW VIC QLD TAS SA WA

Posh Computer Stationery Pty Ltd

Posh deliver within 5 - 10 days and specialise in small quantities.
NSW

Practical Peripherals Corporation

BDT Feeders
PPC distribute the BDT (West German) range of automatic cut paper and envelope feeders which are compatible with most popular daisywheel, dot matrix and desktop laser printers. Prices range from \$499.00 for the ASI300 single bin feeder to \$6999.00 for a 6 bin envelope and paper feeder. In addition PPC offers third party maintenance and toner/developer consumables for the Canon based range of desktop laser printers.
NSW VIC QLD

R & J Distributors

R & J have a range of computer paper any size or quantity, plain or printed. Also ribbons, labels, disks and other accessories.
NSW

R.I.O. Distributing Pty Ltd

Computer paper supplies and accessories at wholesale prices and same day delivery.
NSW

Staedtler (Pacific) Pty Limited

Staedtler CAD Drafting accessories
Staedtler are pioneers in the manufacture of drafting points, tool holders, fibre tip markers and ballpoint cartridges for computer aided drafting machines including a comprehensive range of CAD drafting accessories for most of the popular brands of equipment round the world. These include drawing points and accessories for: Aristo, Autotrol, BBC, Goerz, Metrowatt, Benson, Calcomp, CIL (Quest), Computer-Vision, DCS, Gerber, GFI, Gunsch, Elektronics, Hewlett-Packard, Hitachi, Houston Instruments, Kongsberg, Kuhlmann, Mutoh, National Panasonic, Nuemuehler, Nicolet-Zeta, Nissei Sangyo, Philips, Rikadenki, Roland, Sekonic, Soltec, Tektronix, Watanabe, Wang, Wild, Xynetics, Zeiss. Sales: all areas in Australia, New Zealand and Pacific Islands.
NSW VIC QLD SA WA

Symbiotic Computer Systems

Supplies of Last Statement Paper for use with the Last Sales Ledger. These 2-part carbonless forms contain a statement and tear-off remittance advice. The paper is sold in boxes of 1,000 forms at \$145.00 per box.
VIC

Symbiotic Computer Systems

Symbiotic supplies 3-part carbonless Invoice Paper in boxes of 1,000 forms, at a cost of \$250.00 per box. It may be used with the Last Sales Invoicing Module. But it should be noted, however, that this paper does not conform to the default invoice setup supplied in the program and requires some setup time. Each box is priced at \$250.00.
VIC

Tritonic Pty Ltd

Specialists in design. Supply acoustic hoods, printer stands, workstations and desks.
NSW

Xidex Pty Ltd

Acoustic hoods for printers.
NSW VIC ACT

Xidex Pty Ltd

Microfilm/fiche readers and printers
Brand names Xidex, Micron and NMI.
NSW VIC ACT

Anchor Pad (Australia) Pty Limited

Anchor Pads are locking devices that prevent the theft of desktop equipment. They can be mounted on practically any surface without drilling holes in either the equipment being protected or the desk upon which it sits. There is an Anchor Pad model to suit any piece of office equipment. Anchor Pad offers an exclusive 'No Theft Pledge' with the purchase of any Maximum Security Anchor Pad system involving replacement of stolen equipment up to \$5000.00 per machine and up to \$25000.00 per occurrence for a period of three years from the date of installation.
NSW

IBM

IBM PC Keylock Option

The IBM PC Keylock Option is a simple mechanical device that attaches to the IBM PC, PC/XT and PC Expansion Unit to protect against data corruption and theft of system contents. When installed, the system unit can only be powered on by key, which limits access to authorised users. It can be installed in 15 minutes using only a screwdriver.

NSW VIC TAS QLD SA WA

Micro Expansion Technologies Pty Limited

Kabut Security System

Kabut Security System is an affordable anti-theft device affixed on site to virtually any equipment which has

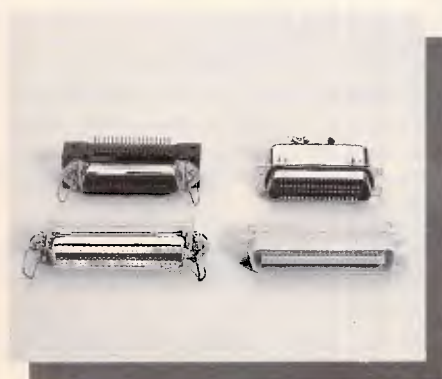
an external screw. By removing a screw and using it to secure a patented Kabut fastener a padlock and steel cable can then be attached. The cable is secured around any immovable object. Screwdriver only tool required to install. NSW

Micro Expansion Technologies Pty Limited

PC Stopper and PC/AT Kollar

PC Stopper protects system data by providing for key locked control of IBM PC power switch. Also blocks removal of internal components and add-in boards by covering system unit screws. PC/AT Kollar prevents peripheral removal by restraining power cords. Also blocks removal of internal components, e.g., hard disk, add-in

CO-FIGHTER TO WIN AND MAKE PROFIT



▲ Centronic Connectors

- * Standard Solder Type
- * Dip Straight Type
- * Dip Right Angle Type
- * Flat Cable Type
- * Pierce Type

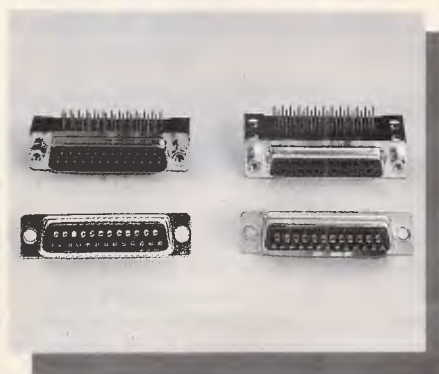
14, 24, 36, 50 Male & Female

▼ A. RS232 Adaptors

Gender Changer, Jumper Box, Mini-tester, Null-modem, Surge protector, Mini-wiring, Multi-port Gender Changer, RS232 Data Switch

B. Centronic Adaptors

Centronic Gender Changer, Centronic Data Switch



▲ D-Sub Connectors

- * Standard Solder Type
- * Dip Straight Type
- * Dip Right Angle Type
- * Flat Cable Type
- * Crimp Type
- * D-Sub Hood

9, 15, 25, 37, 50 Male & Female



▲ PLCC Socket for LSI/VLSI interface connector for Plastic Leaded Chip Carrier.

68, 84 contacts



▲ A. Card Edge Connectors

20, 26, 34, 40, 50, 62 ways for flat cable

B. IDC Socket Connectors

10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64 ways for flat cable

▼ Cable Assembly

- A. Flat Cable Assembly
- B. Run Cable Assembly



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P.O. Box: 7-458 Taipei, Taiwan, R.O.C. Tel: (02)9175954

Telex: 22710 HORATIAN Fax: 886-2-9175962

Cable: HORATIAN Taipei

Securicom

Codercard IBM PC & compatibles security adaptors provide various levels of security for standalone PC networks or PC to mainframe applications. The CPS-200 and the CPS-210 adaptors are board level implementations. The CPS-300 adaptor has an embedded board, and codercard. The PC will not boot unless a codercard in the card reader is authorised and the user must duplicate the password stored in that codercard's microprocessor. See also CPS-200 in boards. QLD

Symbiotic Computer Systems

Modem Security Unit

The Modem Security Unit fits between the modem and the data transmission line preventing access to the computer system until the correct user-selected password is entered within three tries. Transmission rates from 75 - 57000bps and all protocols are supported. The unit attaches to all computers (specialised software is included), and protects the computer from surges in the data transmission lines. This product is Australian made and supported. VIC

Ames Agency Pty Ltd

A comprehensive range of hand tools, cases for field technicians and workshop equipment, including meters, test leads, bench lights and magnifiers, PCB holders, oscilloscopes, benchtest power supplies. Fast service, free delivery and personal attention. Also we refurbish and recover all types of rubber rollers, platens, power rollers, feed rollers, etc.

NSW VIC SA WA

Carrycom (Australia)

Dustcovers

Carrycom (Australia) dustcovers are manufactured from 100% cotton (naturally static resistant) and are available in seven colours. Custom fit for micros, minis and mainframes. There is a wide selection of combination sets to suit ergonomic layouts. Carrycom dustcovers offer protection against dust, smoke, sunlight, static, aerosol sprays and other airborne contaminants. Australian made. All covers feature strong seams, double hems and are fully overlocked.

QLD VIC

Carrycom (Australia)

The Carrycom (Australia) mouse mat provides a smooth, clean rolling surface which assists in the reduction of mouse 'feet' wear. Features a printed grid to allow more accurate positioning of the pointer (especially children). Rubber base prevents desktop slippage and generous size (295mm x 260mm). Ensures plenty

of 'rolling' workspace. Australian made. QLD VIC

Carrycom (Australia)

Hard Transit Custom Cases

Carrycom (Australia) custom fit a wide range of hard transit cases for many popular computers and printers. Facsimile machines of portable size are also catered for. The shell is hi-impact, ABS plastic and the interior high density polyurethane foam. Other features are reinforced handles, twin key or hasp locks, attractive black semi-gloss finish, tongue and groove flanges for dust protection. Australian made. QLD VIC

Carrycom (Australia)

Bind-o-Matic

Carrycom (Australia) are the Queensland and Victorian distributor of the Bind-o-Matic electronic binding system. The Bind-o-Matic system binds documents, pricelists, reports, projects, contracts, instruction manuals, quotations, etc., quickly, neatly and permanently. Machines are available in two sizes and are guaranteed for life. Covers are available in eighteen spine sizes. Advantages: spine may be written on for indexing, one or forty reports can be produced in 30 seconds, glue is available separately for book repair, page removal/insertion very simple.

QLD VIC

NEW

INTRODUCING AYA ONE-STEP DISPOSABLE CLEANING WIPES NEW FROM SWEDEN!

BLUE

The latest technology in cleaning and anti-static treatment for your CRT. AYA one-step disposable wipes make it easy and economical to keep your CRT clean while alleviating dangerous build up of static electricity.

YELLOW

Specially formulated for optically coated screens such as the IBM 3278 and 3279. Tested and approved by IBM in Sweden. Also perfect for optically coated glass and plastic anti-glare screens.

GREEN

Ideal for all those miscellaneous cleaning jobs. These easy wipes make short work of dirt and grime on calculator and other keyboards, storage boxes, and more. Anti-bacterial properties make AYA office cleaning wipes an excellent choice for the telephone mouth piece too.

IT'S EASY

Simply tear open an AYA one-step packet, remove the wipe, and clean the screen, keyboard or telephone. There's no drying required, no messy cloth to store. AYA one-step dries to a streak-free finish.

DISPENSER

The AYA dispenser attaches to the side of the terminal, or to the wall, and is secured with an automatic locking device to discourage theft. Use the special key to refill with a new box of 50 AYA one-step wipes.

DEALER ENQUIRIES INVITED

**SWEDISH POWER
SYSTEMS PTY LTD**

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Phone: (02) 437 6296

We give you profit

For the PC/AT/XT compatible computer,
Computer cable, connectors, switch box.

GW-2000 PC/AT

80286 CPU, 80287 optional
Legal BIOS, DOS
8 I/O slots
Display card
Detached intelligent keyboard
WDC/FDC w/drive
200W power supply
Case

GW-1000 PC/XT

4.77/8 MHz turbo board
Legal BIOS, DOS
8 I/O slots
Display card
FDC w/drive
84 keys AT style keyboard
150W power supply
Case

Good way is a professional manufacturer
and supply complete range in this field.
Fastest delivery, and no defect products,
we are offer



HIGH QUALITY COMPUTER CABLES & CONNECTOR
CABLES FOR: IBM PRINTER, RS232 MODEM,
APPLE MACINTOSH, SCSI, IEEE-488 BUS... ETC.

Switch Box

Metal case shield
Rotary switch
Provide all kinds of interface
Color: Beige
Packing: Gift Box

OEM & Special Orders Are Welcome!

Manufacturer & Exporter



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P.O. Box 91-202, Taipei, Taiwan TEL: (02)5017197-8, 5055285

TLX: 12445 SUWORS FAX: 886-2-5056377

Factory: No. 16, Dah Her Lane #2, Shi Twen District Taichung, Taiwan, R.O.C.

Disk-Pak Australia

Diskette and tape mailing cartons, other computer related packaging solutions. Diskette mailers for 5 1/4" and 8" disks (50c to 70c each including tax and delivery). Tape mailing cartons (2400', 1200', 800' tapes - \$1.40 to \$1.90 each including tax and delivery). Mailing cartons for documentation and disks - 100 x A4 + 5 1/4"/8" disks (\$1.25 each including tax and delivery). Folding storage cartons for 15" wide computer printout with or without diskette pocket (from \$1.35 each including tax and delivery).

Hanimex Pty Limited

Bib Cleaning Products

Hanimex is marketing high quality, competitively priced floppy disks and the Bib range of cleaning products. The Bib cleaning products include a range of high quality computer, audio and video maintenance products. Preventative maintenance is the best way to avoid equipment breakdowns. A little time each week, using these products could save expense and time in the future.

NSW

Micro Expansion Technologies Pty Limited

Safeskin Keyboard Protector

Safeskin is made of high tech polymers and is precision moulded to fit the exact contour of a computer keyboard like a second skin. The cover is virtually transparent making keytops clearly visible and will stay in place protecting continuously against liquid spills, dust, paper clips and other environmental hazards.

NSW

PC Accesssories Pty Ltd

Keyboard Templates

A TDA template puts information within reach without putting it in your way. The face of the template displays the information you want handy, such as menu structures, key assignments, and cursor control information. Each template includes a mini manual which is a specially condensed guide to your software. Templates available for DOS/Basic, Turbo Pascal, Word Perfect, Lotus 1-2-3, Symphony, WordStar, WordStar 2000, MultiMate, Microsoft Word, dBase III and Display Write 3.

NSW

Richard Foot Pty Limited

Computer Cleaning Products

Richard Foot Pty Limited provide a comprehensive range of cleaning and maintenance products designed, developed and perfected for the computer user. Floppicle - a disposable diskette drive head cleaning system for all 3 1/4", 5 1/4" and 8" disks. Microkit - the all in one personal computer cleaning and maintenance kit. Case, keyboard and VDU screen cleaning kits. Streamclene 5 1/4" data cartridge drive head cleaning kit. Cardclene - encoded head cleaning card for all ATMS, plain head cleaning card for all EFTPOS terminals. Anti-static VDU screen cleaners, foam cleaner (general surfaces). Lint free 100% cotton wipes, paper wipes.

NSW

Swedish Power Systems Pty Limited

Range of custom-made VDT screen filters to provide full glare/reflection protection as well as full electro-static shielding. Price range from approximately \$50.00 to \$195.00. Cleaning rollers to suit, each \$10.00. Range of specialised cleaning wipes in individual, sealed, foil sachets. Provided in dispense box of 50 sachets. AYA Blue: anti-static screen cleaner and anti-static treatment. AYA Yellow: pure isopropyl screen cleaner. AYA Green: antibacterial telephone cleaner/treatment and keyboard and general purpose cleaner. Price range \$20.00 to \$30.00 per box of 50 wipes.

NSW

For **TOTAL** PC security
USE

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**FOR DOS, MS-DOS, TELEX-DOS, Z-DOS,
SYSTEMS**

FEATURES:

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**DON'T DELAY — Your system is at risk
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UNIXbullt

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Telephone: (03) 561 1275 for your nearest dealer.

BOMB SCAPE



If you own a PC you're sitting on a maintenance time bomb.

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**Don't wait
for the bomb to go bang**

Mail to: Datronics, P.O. Box 147,
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I'd like to know more about the Datronics 20% Club.

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Company:

Address:

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Services

The following pages contain a list of service companies dedicated to help you maintain your equipment in good working order. The companion to this Guide, the 1987 *Buyers Guide to Software* contains a list of general consultancy organisations as well as those which offer specialist software services, such as 'customising' software or converting data to a new system. Here, we have kept to services involved with organisation of hardware: renting, maintenance, specialist cables and so on.

The best thing to do is to browse through this section. You will be amazed at the variety on offer.

If your computer goes wrong, you will find someone here to put it right. If

the problem is serious and cannot be mended quickly, or you have short-term extra requirements, then you will also find a company who can lease equipment to you. One of the problems of maintaining machinery is keeping it clean and this, also, you can buy as a special service.

If you have decided on a new system and don't know what to do with your old, there is an organisation here who will exchange or buy it from you.

Printing out a lot of data at the moment? You can even find someone who will recycle your printer ribbons!

It is also worth looking at the accessories section to see what extras and additions there are to make life easier.

★ QUALITY IBM-COMPATIBLES ★

- ☆ *We don't sell cheap computers*
- ☆ *We only sell FULLY-TESTED and minimum 20 DAY BURN-IN SYSTEMS*
- ☆ *Real FULL 12 months Warranty*
- ☆ *Our MAIN-BUSINESS is HARDWARE-REPAIR, so we know what we are talking about!*

COMPUTER ★ REPAIR ★

- ☆ *We are specialized in IBM and CLONES*
- ☆ *We also care for Apple and CLONES*
- ☆ *We look at your problem very long and hard (we never give-up)*
- ☆ *Quick turn around, LOW RATES*
- ☆ *Easy parking, open 6 days (9.30 am-7 pm)*

HANTRON DATA SYSTEMS (HDS)
Unit 4, 191 Victoria Road,
Gladesville 2111.

Tel: (02) 816-3879

BACS Computer Environments

BACS Computer Environments provides products and services for computer protection. The products include a full range of anti-static mats and sprays, cleaning products for all computer applications and anti-glare films for monitors. Services include specialised cleaning for mainframe/mini installations, a computer terminal and printer cleaning service and chemical spraying of carpets to eliminate static. The company has been in operation for 5 years and operates in Sydney, Newcastle and Wollongong.

NSW

Graphastat

From mainframe computer rooms built, to

small business solutions for most applications. Also installations of all systems: mainframes including build environments, minis and PCs, datacomms, printers, plotters, disk drives.

NSW

Robert Gareb

Protect your computer. Minimize the threat of computer theft - or just have your company's name (or your own) appear on power up of your computer. This is permanently built into the BIOS, making it much more difficult for a thief to sell the machine when it is so readily traceable. The change in no way affects the normal operation of the computer, and can be done to most IBM compatible machines. Power up logo can include name, serial number, telephone num-

ber etc. Price is \$95.00 for one microcomputer with discounts for quantities.

NSW

Sydney Computer Cleaning Services

SCCS specialises in the environmental control of computer installations. Every facet of computer room cleaning is their speciality. They also supply appropriate cleaning supplies for cleaning VDUs & PCs. Their service includes cleaning each part of the computer with the appropriate materials which minimise the risk of damaging an expensive investment.

NSW

CPM Data Systems Pty Limited

CPM Data Systems offer short term (6 months) and long term rental of computer systems. Long term users are kept up to date with new machines as they become available free of charge. A full range of computer supplies is available as is CPM's technical support.

VIC

Capricorn Computing Services Pty Ltd

Purchase and sale of used computers.

NSW

Computer Consignments Pty Ltd

Brokers for new and used computers.

NSW

Computer Exchange Corporation

Computer Exchange buys and sells all makes and models of computers Australia and worldwide. IBM, DEC, Wang, HP, NCR, FACOM, DG, DP, ICL, Honeywell and many others. Also peripheral equipment to suit most computers.

NSW

Comserv Australia Pty Ltd

Comserv provides a hire and sale service for microcomputer hardware.

WA

Direct Computer Services Pty Ltd

Fully serviced system rentals.

NSW

Exchange 3000

Exchange 3000 sells/resells all Hewlett-Packard pre-owned equipment.

NSW

Hewlett-Packard Australia Limited

HP Finance offer a range of letting and rental services designed to meet the requirements of the customer at very competitive prices. Complete hardware and software support at varying levels and prices are also available.

VIC

High Tech Computers Pty Ltd

Purchase and sale of computers.

NSW

PC Hire

IBM PCs & compatibles available for short or long term hire.

NSW

Rent-a-Comp

Professional rental service: PCs, systems and peripherals.

QLD

Simpson Computer Services Pty Ltd

A secondhand equipment exchange for Hewlett-Packard desktop computers. They buy, sell and also provide a listing service. They also write customised software and provide a trouble shooting service. Mainly catering for the scientific, industrial, commercial and merchant banking sectors.

VIC

Tech Rentals Pty Ltd

Rental of IBM, Compaq and Apple PCs by the month or long term. Rental option to buy plan. Printers and VDUs also available by the week or month. Full catalogue or equipment available on request.

NSW

Word Express Pty Ltd

PC-OIS-VS Wang new and used sales and rentals.

NSW

Advanced Logic Industry

This company offers repair and maintenance services up to component level on any brand of microcomputers. Their rate is \$40.00 per hour. They also do on site service; a service contract is available.
VIC

Australia Wide Computer Services Pty Ltd

Australia Wide is an Australian owned company incorporating dedicated technical specialists in 11 operational branches throughout Australia. Maintenance contracts are available and on-site or workshop service can be arranged.
VIC NSW ACT SA WA NT QLD TAS

CPM Data Systems Pty Limited

CPM Data Systems offer full service to microcomputer users either on site or in the workshop. They also supply stationery and storage media and rent systems for periods of over 6 months.
VIC

Computer Maintenance of Australia

CMA provides service on a wide range of products from multi-user to terminal devices. They are the approved repairers of Altos systems and provide a full service, including systems software, on the total range. They have 26 offices throughout Australia, with the head office in Brisbane. Other products include DEC, IBM PC/XT/AT and most clones, ECS, Videcom, Wyse, Texas Instruments, Epson, OKI. We hold direct contracts with Altos, Videcom, ECS, Prime, Australian Airlines and Reynolds and Reynolds.
QLD

Computer Tech Support Pty Ltd

This company does repairs to the IBM range of Personal Computers and is an authorised Epson Warranty repair centre. They also service LAN and multi-user installations.
VIC

Datronics Corporation Ltd

Australian owned, independent maintenance company. National service from company owned centres in Brisbane, New-

castle, Sydney, Canberra, Melbourne, Hobart, Adelaide and Perth. Most manufactures covered, including PCs monitors, printers, terminals, lasers, plotters, etc. Networks also serviced. Wide choice of contracts including Datronics 20% Club with contract charge one fifth of comprehensive and low guaranteed ceiling per call. Casual work welcome. Trade supplied, including fixed price board repair service.

NSW SA QLD TAS VIC ACT WA

Efficient Computer Services Pty Ltd

Provide fixed rate maintenance services for IBM PC/XT/AT. Examples of prices: motherboard \$90.00; add-on cards \$70.00. We also have a range of supplies: diskettes \$22.00 per box of 10; 360k National floppy disk drives \$200.00; 20Mb hard disk with controller \$1000.00; Star NX10 printer with printer cable \$520.00.
NSW

Graphastat

Graphastat offer service contracts, preventative maintenance and parts and labour on a large variety of computer systems from mainframes to personal computers.
NSW

Hales & Rogers Pty Ltd

Maintenance is available for Osborne and Chendai machines. Hard disk installation is available for most Personal Computers. The company also markets: floppy disks from \$30.00, tax paid per box of 10; printer paper and ribbons for Brother, Epson, NEC & Nakajima; printer cables for IBM & compatibles from \$30.00.
NSW

Hantron Data Systems

This company specialises in repair of all types of computer and peripheral equipment down to chip level, and hard disk drive repairs.
NSW

High Technology Computer Systems Pty Ltd

High Tech is Australia's longest running Commodore dealership and offers full range backup for all Commodore computers. The current range: Commodore 64 under \$500.00 for cpu; PC 10/20 from \$2000.00 up; Amiga range \$2500.00 for 1000, 500 and 2500 soon available. They stock complete range of drives, printers, modems, software and on site service

facilities.
VIC

Hills Industries Computer Service

Hills Computer Service is a national repair company providing fast efficient service to microcomputers, printers, disk drives and monitors. The types of service provided are: on site service, return to workshop service and maintenance contract service. Hills Computer Service has branches in all capital cities of Australia, excluding the Northern Territory, and including Newcastle and Canberra.
SA QLD VIC WA NSW ACT

Ideal Systems

Ideal Systems offers a range of maintenance services including hardware installation, computer first aid and software help. They also operate a support line for their products and to supplement their training courses.
VIC

NEC Information Systems Australia Pty

NEC provides with their equipment a standard 90 day warranty. Customers have the option of purchasing an extended 12 month on-site warranty at extremely low cost. Alternatively the customers can also have an annual maintenance agreement which can be either on-site or return-to-depot depending on the location of the customer. The maintenance price is generally 10 - 12% of the value of the equipment in this case.
NSW VIC QLD TAS SA WA

PC Support Pty Ltd

PC Support offers repair facilities for IBM PC & compatibles. Floppies and tapes of all sizes are available.
NSW

Parity Computer Limited

National maintenance services are provided for the IBM, Compaq, Wyse & Cleveland ranges of personal computers. A variety of contracts are available from casual time and materials to fully comprehensive on-site cover. Other services such as the supply of furniture, storage media, stationery etc. are offered in each of our offices.
NSW

Quentron Digital Systems

Quentron supplies a wide range of support and service on: Adage graphic workstation, Act II inkjet colour printer, numonics plotters and digitizers, matrix cameras and thermal printers, optronics plotters, Ortec instrumentation, lasers.

SA NSW

Streamline Data Services Pty Limited

Streamline Data Services offer service

either on an ad hoc basis, charging for time and materials, or as a fixed price contract. Their experience in the computer/software industry spans 25 man years in mainframe, mini and micro environments. Among their clients are software houses, state government, federal government and many commercial institutions.

NSW

Telex Computer Products International

Telex is a major manufacturer of

IBM compatible communications controllers, and workstations, airline and travel industry network systems, magnetic tape systems and printers. Products are manufactured in the USA, Australia and Europe. Telex has a highly skilled service organisation throughout Australia and the Far East, servicing communications equipment, personal computers, printers, disk and tape drives from both Telex and other manufacturers.

NSW SA QLD ACT NT TAS VIC WA

Toner Distributors

Toner Distributors, using an exclusive

Magnetics Laboratories Pty Ltd

This company offers tape cleaning and evaluation and tape certification at 1600bpi and 6250bpi. Their range of supplies include: computer tape and accessories; data cartridges and storage trays; flexible diskettes, cleaning disks and storage boxes, Kybe cleaners and evaluators, shockwatch impact detectors, ribbons and continuous labels.

NSW

Tardis

Tardis provides a disk data recovery service. They can often recover data from floppy disks that have become unreadable and under some circumstances can recover data from hard disks. So long as a disk is

not physically or magnetically damaged then there is a 50-50 chance that they can recover the data from the bad sectors.

NSW

This To That Pty Ltd

Diskette to Diskette Conversion Service

This to That is an all Australian company using their unique locally designed and produced hardware and software to provide specialised conversion services for wordprocessing users. They support most of the dedicated professional wordprocessing systems and many of the PC based wordprocessing products. Their direct diskette to diskette conversion service eliminates the need to rekey documents. Minimal reformatting is usually all that is needed to produce a perfect final document on the new system. A free test ser-

vice is available and discounts apply for volume quantities. For information regarding specific conversion requirements call or write for a brochure.

NSW

Xidex Pty Ltd

Diskette formatting and duplicating

Xidex offers a high quality, confidential, reasonably priced service with a prompt turnaround. Their full support services include labelling, assembly, collation, etc. They have more than 500 formats on file, use state of the art software protection systems PC/MS-DOS and have a pre-packaged protection scheme for PC/MS-DOS users. Absolute security for masters. All diskette sizes 8", 5 1/4" and 3 1/2" and all densities.

NSW VIC ACT

Lazarus Ribbons

Printer ribbon exchange service

Lazarus Ribbons is in the business of recycling inked fabric printer ribbons. They are able to reink all common types of dot matrix and daisy wheel ribbons (both spool to spool and in cartridges). They also 'reload' cartridges - that is, insert new ribbons when re-inking is not practicable. They use residueless, emulsified, lubricant ink, which complies with the specifications for safe print-head operation. We also purchase 'dead' cartridges and provide colour-inked ribbons (including textile inks for iron-on transfers). Send them your old ribbons and they will return fresh ribbons and invoice in the mail. Average price is \$4.00 per unit

NSW

. OTC (Australia)

OTC provides facilities for all of Australia's international communications, eg telex, satellite TV, data exchanges, telephone, telegrams, to ships at sea worldwide. They also offer private networks for large corporations and government.

NSW VIC QLD ACT WA SA

Ptizan Computer Services Pty Ltd

Chip programming services

Ptizan's specific area of expertise is the hardware/software interface. They have specialised in chip and chip level programming and have the equipment and software for array logic design, burning and im-

plementation. Virtually every programmable chip on the market can be handled - Eprom, Pal, IFL etc. Old and new style socketting. Price depends on the chips used and nature of job. 24 hour turnaround for straightforward orders.

ACT

Taiwan Australia Trade & Commercial

T.A.T.C. provides information on the electronic industry in Taiwan. DATAPAK is a comprehensive listing of firms and people in the Taiwanese computer industry. It retails for \$175.00. Write for a detailed brochure.

NSW

license from the original inventor in the USA, recondition and recharge the toner cartridges used in all Canon engineered laser printers, eg Apple Laserwriter, Hewlett-Packard Laserjet, Impact, Canon, Wang and QMS. We

can also recharge the cartridges used in the Canon PC Photocopier range. Prices for the laserprinter and photocopier cartridges are \$89.00; colours for laserprinters are superblack, brown and blue and

cost \$140.00. Payment must accompany the cartridge. ACT

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Ade Computers

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Advance Peripherals Pty Ltd

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Advanced Logic Industry

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AED System Developments Limited

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Altos Computer Systems

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American Business Machines

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Ames Agency Pty Limited

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08 356 7333

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Belmont
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Apple Computer Australia Pty Limited

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09 321 2657

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Deakin ACT 2600
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252 Abbotsford Road
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07 529 522

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North Sydney NSW 2060
02 957 4678

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03 519 446

Arthur Stutchbury (Office Furniture) Pty Ltd

408 Crown Street
Surry Hills
Sydney NSW 2010
02 33 4001

ASSCO (Vic) Pty Limited

P O Box 519
Ringwood VIC 3134
03 873 2266

Atlantis International Computers

49 Wadham Parade
Mount Waverley VIC 3149
3 277 3139, 03 277 7187

Australia Wide Computer Services Pty Ltd

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Kappalyn Computer Engineering

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Balgowlah NSW 2093
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Amalgamated Business Machines

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Cadzow Australia Pty Ltd

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Nimrod Computer Services Pty Ltd

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09 362 4844

Lennox Computer Services

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Millner NT 5792
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Comcheck Computer Maintenance

33 Kate Street
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Ian Rummey Office Equipment

245 Elizabeth Street
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Automatic Ice Company

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Automation Facilities

26 Tepko Road
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Avery Label (Australia) Limited

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AWA-Nortel Pty Limited

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BACS Computer Environments

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Barrington Corporation

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Barson Computers Australasia Pty Limited

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Basic Time

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Bertech Communications Products

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BJE Enterprises

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BS Microcomp Pty Limited

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Cartel Personal Computers

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Case Communication Systems Ltd

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02 660 0077

CEANET Pty Limited

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Commodore Business Machines

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Comprador Business Systems

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Computer & Electronic Services

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Computer Consignments Pty Ltd

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Computer Corporation of Australia Pty Ltd

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Cleveland Computers Sales Division

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Computer Exchange Corporation

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Computer Maintenance of Australia

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Computer Office Supplies

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Computer Paper

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Computer Protocol Pty Ltd

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Computer Supplies (Australia) Pty Ltd

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Computer Tech Support Pty Ltd

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Computer Transition Systems

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Computermate Products (Aust) Pty Limited

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Comserv Australia Pty Ltd

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Consultech Australia Pty Limited

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Control Data Australia

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CPlus Micros

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CPM Data Systems Pty Limited

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CREX Computer Wholesalers

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CVA Computer & Peripheral Sales

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Daneva Australia

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Data Bridge Electronic

Communications Pty Limited
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Data Cable

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Datamatic Pty Ltd

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Digital Audio Processing Pty Ltd

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Disk-Pak Australia

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Domino Computers

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Crows Nest
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Earth Computer Systems

2nd Floor London Court
13 London Circuit
Canberra ACT 2600

5th Floor
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Chatswood NSW 2067
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Eastern Micro Electronics

215-217 Park Street
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Electromark Pty Ltd

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Electronic Solutions Pty Limited

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Elmeasco Instruments Pty Ltd

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07 369 8688

P O Box 413
West Perth WA 6005
09 481 1500

P O Box 154
Prospect SA 5082
08 344 9000

Emona Computers Pty Ltd

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02 519 3933

Emulex Corporation

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Epson Australia Pty Ltd

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Level 3, Waverley Square
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Ericsson

61 Regal Street
Broadmeadows VIC 3047
03 309 2244

Exchange 3000

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Surry Hills
Sydney NSW 2010
02 211 4677

Fagan Microprocessor Systems

95 Canterbury Road
Middle Park VIC 3206
03 699 9899

Ferranti Computer Systems Australia Pty

2A Mavis Street
Revesby
Sydney NSW 2212
02 708 6655

Firmware Design Pty Ltd

72 Ross Crescent
Blaxland NSW 2774
047 394 267

Flexitime Pty Ltd

83 York Street
Sydney NSW 2000
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Fordigraph

1 Rachael Close
Silverwater NSW 2141
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Forsyth Office Furnishers

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Foxcom Pty Limited

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Fujitsu Australia Limited

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Hanimex Pty Limited

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02 957 6358

High Technology Communications Pty Ltd

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High Technology Computer Systems Pty Ltd

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148 Miller Road
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Fyshwick ACT 2609
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North Sydney NSW 2060
02 923 9660

677 Victoria Street
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151 Greenhill Road
Parkside SA 5063
08 271 5022

5-7 Kitchener Way
Victoria Park WA 6100
09 362 9566

Horizon Computer Corporation

7-9 Merrina Street
Gordon NSW 2072
02 498 6611

Hypac Electronic Pty Ltd

21 Ryedale Road
West Ryde NSW 2114
02 808 3066

Hypertec Pty Ltd

Suite 404, Henry Lawson Business Centre
Birkenhead Point
Drummoine NSW 2047
02 819 7222

I C L

14 Rodborough Road
Frenchs Forest
Sydney NSW 2086
02 452 9000

IBM

PO Box 4789
Sydney NSW 2001
02 20531

If writing use Sydney address.

VIC 03 614 1511
SA 08 212 6899
QLD 07 229 6711
WA 09 481 3588
other states 008 222 2224

Ideal Systems

200 Lygon Street
Carlton
Melbourne VIC 3053
03 663 6276

IDEAssociates Australia

2101 Bondi Junction Plaza
Bondi Junction
Sydney NSW 2022
02 387 5222

Imagineering

77 Dunning Avenue
Rosebery NSW 2018
02 662 4499

Ground Floor
51-53 Park Street
South Melbourne VIC 3205
03 690 9022

3/249 Coronation Drive
Milton
Brisbane QLD 4064
07 369 2911

Infocorp Pty Limited

16th Floor
122 Arthur Street
North Sydney NSW 2060
02 957 4800

224 Normanby Road
South Melbourne VIC 3205
03 646 3262

Infomagic Australia

P O Box 131
Eastwood NSW 2122
02 858 4111

P O Box 296
St Kilda VIC 3182
03 528 5379

Information Electronics Ltd

47 Newcastle Street
Fyshwick ACT 2601
062 805 810

86 Chandos Street
St Leonards
Sydney NSW 2065
02 439 8955

222 Kingsway
South Melbourne VIC 3205
03 690 8788

Information Gateways Pty Ltd

Level 66, MLC Centre
Martin Place
Sydney NSW 2000
02 238 2146

Information Solutions Pty Limited

P O Box 174
Fitzroy VIC 3065
03 419 0300

Infotron Systems Pty Limited

61 Lavender Street
Milsoms Point
Sydney NSW 2061
02 959 5791

2nd Floor
320 St Kilda Road
Melbourne VIC 3000
03 699 1633

Integral Fibre Systems P/L

6/19 Rodborough Road
Frenchs Forest NSW 2086
02 451 7033

Intelec Data Systems

Unit 11
21 Malvern Street
Bayswater VIC 3153
03 729 6644

Intelligent Systems Australia

17 Natalia Avenue
Huntingdale VIC 3167
03 543 7988

119 Willoughby Road
Crows Nest NSW 2065
02 436 0422

Interface Technology of Australia

251A Victoria Road
Gladesville
Sydney NSW 2111
02 816 2700

Interlink Electronics

171 Dorcas Street
South Melbourne VIC 3205
03 699 4177

International Accessory Distributors Pty

34 Wadhurst Drive
Boronia VIC 3155
03 222 2862

Intertan (Tandy)

91 Kurrajong Avenue
Mt Druitt NSW 2770
02 675 1222

Cnr Morphett & Grote Streets
Adelaide SA 5000
08 211 7500

381 Adelaide Street
Brisbane QLD 4000
07 839 4042

284 Bourke Street
Melbourne VIC 3000
03 663 2361

123 Liverpool Street
Hobart TAS 7000
002 310 250

208 Beaufort Street
Perth WA 6000
09 328 4122

IPEX Computers

8 Ebdon Street
Moorabbin VIC 3189
03 666 9066

IPL Datron

79-81 Regent Street
Redfern
Sydney NSW 2016
02 698 8211, 02 699 4824

25 Palmerston Crescent
South Melbourne VIC 3205
03 690 9855

32 Railway Terrace
Milton QLD 4064
07 368 329

J C Fagg Computer Supplies

30 Bay Street
Ultimo
Sydney NSW 2007
02 212 6111

Jacpaper Australia Pty Ltd

2 Haran Street
Mascot NSW 2020
02 669 6688, 008 334 856

Kaypro Computers Pty Ltd

Unit 2
9/11 Ethell Road
Kirrawee NSW 2232
02 542 3866

KCM Computers Pty Ltd

380 Victoria Street
Richmond VIC 3121
03 429 2733

Kenelec Pty Ltd

48 Henderson Road
Clayton
Melbourne VIC 3168
03 560 1011

Suite 1, 1st Floor
250 Pacific Highway
Crows Nest NSW 2065
02 439 5500

55 Ipswich Road
Woollahra QLD 4102
07 393 0311

Kenelec (cont)

6 Dequetteville Terrace
Kent Town SA 5067

Suite 15, Kobold House
17 Prowse Street
West Perth WA 6005
09 322 4542

Kent Design

10A Claremont Avenue
Malvern VIC 3144
03 509 8751

Kohjinsha Sotec Australia

17 Brighton Road
St Kilda VIC 3184
03 534 0286

Kowhai Systems

165 Queens Road
Connells Point NSW 2221
02 546 6499

Labtam Limited

43 Malcolm Road
Braeside VIC 3195
03 587 1444

133 Alexander Street
Crows Nest NSW 2065
02 439 5446

Suite 11 Centre Court
Barrier Street
Fyshwick ACT 2609
062 805 666

213 Greenhill Road
Eastwood SA 5063
08 274 3726

Unit 5
1 Leichhardt Street
St James WA 6102
09 470 2655

6/7 Windorah Street
Stafford QLD 4053
07 352 5166

Lazarus Ribbons

70 Wolsley Road
Mosman NSW 2088
02 960 2737

Lipton and Whyte

38 Warratina St
Labrador QLD 4215
075 328 806

Logic Source Australia Pty Ltd

Ground Floor
7 West Street
North Sydney NSW 2060
02 957 4314

Logo Computer Centre

Suite 303 Henry Lawson Business Centre
Birkenhead Point
Drumoyne NSW 2047
02 819 6811

Lysco

P O Box 265
Bunbury WA 6230
097 263 009 ,097 214 144

MACE Machine Division

16 Bridge Street
Rydalmere NSW 2116
02 638 5166

Mace Software

Land St/23 Sylvan Road
Toowong
Brisbane QLD 4066
07 870 3600

Magna Techtronics Aust. Pty Ltd

7-9 George Place
Artarmon NSW 2064
02 427 0666

Magnetics Laboratories Pty Ltd

453 Willoughby Road
Willoughby NSW 2068
02 958 3379

Mandate Pty Limited

8/32 Spine Street
Sumner Park QLD 4074
07 376 2733

Matting Industries Australia

8 Gifford Street
Silverwater NSW 2141
02 648 5855

Mecom Pty Ltd

150 Military Road
Neutral Bay NSW 2089
02 908 4411

Megavision Pty Ltd

255-259 Pacific Highway
North Sydney NSW 2060
02 957 5797

Mercury Computer Systems

449 Swanston Street
Melbourne VIC 3000
03 662 3047

Mestec Electronics Pty Ltd

1 Brewer Street
East Perth WA 6000
09 227 8595

Micro EDP & Hardware

P O Box 91
Claremont WA 6010
09 384 5511

Electronic Distributors

305 Morphett Street
Adelaide SA 5000
08 212 1799

Micro Expansion Technologies

P O Box 248
Riverwood NSW 2210
02 534 6355

Micro General Pty Limited

58 Atchison Street
St Leonards
Sydney NSW 2065
02 439 8400

Micro Networks

119 Willoughby Road
Crows Nest
Sydney NSW 2065
02 436 0422

Level 6
608 St Kilda Road
Melbourne VIC
03 529 5100

Micro Pro Computers Pty Ltd

43 Atherton Road
Oakleigh VIC 3166
03 568 6911 ,03 569 0169

Micro Venturers

P O Box 177
Elizabeth Centre SA 5112
08 255 5725

Micro-Educational

8/235 Darby Street
Newcastle NSW 2303
049 264 122

Microbee Systems Ltd, Australia

Koala Crescent
West Gosford NSW 2250
043 242 711

Melbourne Computer Centre

50-52 Whitehorse Road
Deephene VIC
03 817 1371

Brisbane Computer Centre

455 Logan Road
Stones Corner QLD 4120
07 394 3688

Adelaide Computer Centre

117-119 Gouger Street
Adelaide SA 5000
08 212 3299

Perth Computer Centre

141 Stirling Highway
Nedlands WA 6009
09 386 8289

Microhelp Computers

361 St Georges Road
Fitzroy North VIC 3068
03 486 1555

Micron Computers Australia

631 Glenhuntly Road
South Caulfield
Melbourne VIC 3162
03 528 6692

Microsoft Pty Ltd

1/17 Rodborough Road
Frenchs Forest NSW 2086
02 452 5088 ,008 226 850

Q*Soft QLD

07 369 3599

Micro SL WA

09 368 1366

Quercus Distributors SA

08 272 6022

Mike Boorne Electronics

61A Hill Street
Roseville NSW 2069
02 463 014

Minicomp Graphic Peripherals

6th Floor
104 Mount Street
North Sydney NSW 2060
02 957 6800

Minima Computer Services Pty Ltd

26 Clarice Road
Box Hill VIC 3128
03 890 0890

Mitsubishi Electric AWA Pty Ltd

P O Box 11
Rydalmere NSW 2116
02 638 8444

121-123 Bamfield Road
West Heidelberg VIC 3081
03 459 1688

711 Boundary Road
Coopers Plains QLD 4108
07 277 0100

10 Chesterman Street
Moonah TAS 7009
002 724 366

89 Grange Road
Allenby Gardens SA 5009
08 340 1033

159 Great Eastern Highway
Belmont WA 6104
09 277 7788

Mitsui Computer Limited

1-3 Rodborough Road
Frenchs Forest
Sydney NSW 2086
02 451 7711

Mobex Pty Limited

12 Barcoo Street
East Roseville
Sydney NSW 2069
02 406 6277

Modem Cabinets Pty Ltd

3 Kurrajong Avenue
St Marys NSW 2760
02 673 2416

Moore Business Systems

84 Foveaux Street
Surry Hills
Sydney NSW 2010
02 212 1711

MPA Pty Limited

101-107 Whitehorse Road
Blackburn VIC 3130
03 894 1500

Suite 2
156 Military Road
Neutral Bay NSW 2089
02 908 3666

Multisoft Australia

1133 Hay Street
West Perth WA 6005
09 322 6637

Multitech Computers Pty Ltd

15 Catalina Drive
Tullamarine VIC 3043
03 338 3911

Nashua Discs (NSW)

48 Frenchs Road
Willoughby NSW 2068
02 958 2044

National Panasonic

Industrial Products Division
P O Box 319
North Ryde NSW 2113
02 886 0200

NCR Australia Pty Limited

8-20 Napier Street
North Sydney NSW 2060
02 922 0161

NEC Information Systems Australia

99 Nicholson Street
St Leonards NSW 2065
02 438 3544

11 Queens Rd
Melbourne VIC 3004
03 267 5333

527 Gregory Terrace
Bowen Hills QLD 4006
07 528544

Suite 3 Building B,
Fernhill Park
Thyne Street
Bruce ACT 2617
062 51 4611

62 Greenhill Road
Wayville SA
08 373 1966

41-43 Adelaide Terrace
Perth WA
09 325 6988

Neologue Pty Limited

30 Ida Grove
Olinda
Melbourne VIC 3788
03 751 2066

Netcomm (Australia) Pty Ltd

Unit B, 25 Paul Street North
North Ryde NSW 2113
02 888 5533

New Dimension Computers Suit 9

417 Femtree Gully Road
Mt Waverley VIC 3149
03 544 4233

Novatech Controls

429 Graham Street
Port Melbourne VIC 3207
03 645 2377

Novatech (cont)

8 Knox Street
Belmore North NSW 2192
02 758 1122

Trio Electrix Pty Ltd

177 Gilbert Street
Adelaide SA 5000
08 212 6235

Kelectronics

14 Robin Street
Mount Lawley WA 6050
09 271 3405

Offcom Pty Limited

28 Chandos Street
St Leonards NSW 2065
02 438 4199

Office World Pty Ltd

51 Whiting Street
Artarmon NSW 2064
02 439 8077

Olivetti Australia Pty Ltd

140 William Street
Sydney NSW 2011
02 358 2655

568 St Kilda Road
Melbourne VIC 3004
03 529 7299

132 Lutwyche Road
Windsor QLD 4030
07 357 5799

80 Fullerton Road
Norwood SA 5067
08 426 701

214 Northbourne Road
Braddon ACT 2601
062 480 566

147 Bathurst Street
Hobart TAS 7000
002 343 155

Cnr Newcastle & Loftus Sts
Leederville WA 6007
09 328 3433

Online Control Pty Ltd

2/7 Waltham Street
Artarmon NSW 2064
02 436 1313

Optsoft Pty Ltd

261 Old Northern Road
Castle Hill NSW 2154
02 680 3930

115 City Road
South Melbourne VIC 3205
03 648 2065

Cnr Bowen & Turbot Streets
Brisbane QLD 4000
07 830 4602

28 Grenfell Street
Adelaide SA 5000
08 219 4768

5th Floor
10 Moore Street
Canberra City ACT 2601
062 496 511

158 Adelaide Terrace
Perth WA 6000
09 325 3499

309 Liverpool Street
Hobart TAS 7000
002 238 655

Oshima Computers Pty Ltd

56 Burwood Road
Hawthorn VIC 3122
03 819 6060

OTC (Australia)

32-36 Martin Place
Sydney NSW 2000
02 230 5000

382 Lonsdale Street
Melbourne VIC 3000
03 606 4444

380 Queen Street
Brisbane QLD 4000
07 221 6250

PO Box 458
Civic Square
Canberra ACT 2600
062 457 011

22 St Georges Terrace
Perth WA 6000
09 325 6944

Johnston Road
McLaren Vale
Adelaide SA 5171
08 323 8935

Ottoman Group Pty Ltd

P O Box 1433
Fortitude Valley QLD 4006
07 252 1226

Output Media Pty Ltd

360-362 Kent Street
Sydney NSW 2000
02 295 683

Oxford Systematics

P O Box 126
Heidelberg VIC 3084
03 459 9671

PAC Computer

48 Commercial Road
Fortitude Valley QLD 4006
072 521 226

Pacific Data Corporation

3rd Floor
93 York Street
Sydney NSW 2000
02 290 1122

Parity Computer Limited

P O Box 323
St Leonards NSW 2065
02 438 3222

PC Accessories Pty Ltd

P O Box 374
Turramurra NSW 2074
02 449 4721

PC Extras Pty Limited

G03 The Watertower
Cnr Marian & Rosehill Streets
Redfern Hill NSW 2016
02 319 2155

29 Yambla Street
Clifton Hill VIC 3068
03 698 7562

PC Hire

60 Cook Street
Baulkham Hills NSW 2153
02 686 1952

PC Plus

Suite 502
325 Chapel Street
Prahran VIC 3181
03 529 8976

PC Support Pty Ltd

Level 2, Ampol House
84 Pacific Highway
North Sydney NSW 2060
02 957 6364

PCs PLUS

11 Seven Oaks Road
East Burwood VIC 3151
03 233 7955

Pericomp

345 Wickham Terrace
Brisbane QLD 4000
07 839 9200

95 York Street
Sydney NSW 2000
02 290 2844

31 Coventry Street
South Melbourne VIC 3205
03 699 2988

Professional Technology

104 Outram Street
West Perth WA 6005
09 322 1896

Personal Computer Software Pty Limited

68 Alfred Street
Milsons Point
Sydney NSW 2061
02 923 2899

Philips Scientific & Industrial

25-27 Paul Street North
North Ryde NSW 2113
02 888 8222

Photon Computers

80 Lade Street
Cooorparoo
Brisbane QLD 4151
07 394 4488

Porchester Computers

177 Barkly Street
St Kilda
Melbourne VIC 3182
03 537 2722

Posh Computer Stationery Pty Ltd

18 East Street
Granville NSW 2142
02 682 7122

PPS Australia Pty Limited

Level 2
81 York Street
Sydney NSW 2000
02 290 1135 ,02 290 3994

Practical Peripherals Corporation

Pty Limited
1163A Brougham Street
Woolloomooloo NSW 2011
02 358 6244

56 Claremont Street
South Yarra VIC 3141
03 241 599

252 Annerley Road
Dutton Park QLD 4102
07 846 3173

Precision Power Products

12 The Corso
Norman Park
Brisbane QLD 4170
07 395 7433 ,008 777 446

President Computers Pty Limited

100 George Street
Hornsby NSW 2700
02 476 2700

117 Cardigan Street
Carlton VIC 3004
03 347 0555

6/49 Townsville Street
Fyshwick ACT 2609
062 804 804

19 Brereton Street
South Brisbane QLD 4101
07 846 2228

1 Computer Street
Labrador
Gold Coast QLD 4216
075 374 788

Ptizan Computer Services Pty Ltd

PO Box 69
Belconnen ACT 2616
062 586 823

Pulsar Electronics Pty Ltd

19-21 Catalina Drive
Tullamarine VIC 3043
03 330 2555

Level 18, Bondi Junction Plaza
500 Oxford Street
Bondi Junction NSW 2022

Quentron Digital Systems

(A division of Quentron Optics Pty Ltd)
75A Angus Street
Adelaide SA 5000
08 223 6224

PO Box 147
Five Dock NSW 2046
02 712 3111

Quest International Computers Pty Ltd

1 Hamilton Place
Mt Waverley VIC 3149
03 277 7444

Suite 51 Chatswood Village
47 Neridah Street
Chatswood NSW 2067
02 419 5744

Endeavour House
Technology Park
The Levels SA 5095
08 260 8225

R & J Distributors

35 Flowerdale Road
Liverpool NSW 2170
02 601 1319 ,A/H 02 602 2396

R.C.S. Design Pty Limited

728 Heidelberg Road
Alphington VIC 3078
03 496 404 ,03 496 792

R.I.O. Distributing Pty Ltd

Cnr Darley Road and Hooper Lane
Randwick
Sydney NSW 2031
02 399 9900

Ran Data Corporation Ltd

4th Floor
200 Adelaide Terrace
Perth WA 6000
09 325 2400

Netmap Corporation Limited

66 Berry Street
North Sydney NSW 2060
02 922 2711

Read Computer Engineering Ltd

52 Bay Road
Sandringham VIC 3191
03 598 4177

Rent-a-Comp

Cnr Mayneview & Cordova Streets
Milton QLD 4064
07 369 4466 ,008 777 500

Richard Foot Pty Limited

26-30 Tepko Road
Terrey Hills
Sydney NSW 2084
02 450 2133

Robert Gareb

PO Box 122
Bondi Beach
Sydney NSW 2026
02 308 261

Roland Corporation Australia Pty Limited

38 Campbell Avenue
Dee Why West
Sydney NSW 2099
02 982 8266

50 Garden Street
South Yarra VIC 3141
03 241 1254

Rosser Communications

P O Box 152
Pymble NSW 2073
02 449 8233

Sanyo Office Machines Pty Limited

Level 5
5-9 Harbourview Crescent
Milsoms Point NSW 2061
02 929 4644

17-33 Douglas Street
Milton QLD 4064
07 369 7588

68-70 Wollongong Street
Fyshwick ACT 2600
062 805 854

Western Business Machines

345 Charles Street
North Perth WA 6006
09 328 7266

230 King Street
Melbourne VIC 3000
03 675 501

240 Currie Street
Adelaide SA 5000
08 212 6500

Cnr Mangola & Mitchell Streets
Larrakeyah NT 5790
089 815 794

258 Charters Towers Road
Rising Sun
Townsville QLD 4810
077 798 555

SAS Software Pty Limited

Private Bag No. 7
Level 3, 35 Grosvenor Street
Neutral Bay NSW 2089
02 908 2244

Securicom

P O Box 2021
Strathpine Centre
Brisbane QLD 4500
07 205 7218

Sendata Pty Limited

11 Stamford Road
Oakleigh VIC 3166
03 568 6299

67 Nicholson Street
St Leonards
Sydney NSW 2065
02 438 4255

Sharp Corporation of Australia Pty Ltd

1 Huntingwood Drive
Huntingwood (Blacktown) NSW 2148
02 831 9111

15 Koormang Road
Scoresby VIC 3179
03 763 9444

33 Frederick Street
Belmont WA 6104
09 277 7477

10 Dividend Street
Mansfield QLD 4122
07 343 9144

Sharp Corporation (cont)
Unit 6, Centre Court
Pirie Street
Fyshwick ACT 2609
062 805 288

123 Mooring Avenue
Camden Park SA 5038
08 294 7166

Shuttle Datacomm Pty Limited

456 St Kilda Road
Melbourne VIC 3004
03 267 1011

Sigma Data Corporation Pty Limited

11th Floor
157 Walker Street
North Sydney NSW 2060
02 957 3777

11 Queens Road
South Melbourne VIC 3004
03 267 3633

19 Barry Drive
Turner ACT 2601
062 572 722

Simpson Computer Services Pty Ltd

63 Hartington Street
Kew VIC 3101
03 859 6643

SNS

128 Devonshire Street
Surry Hills
Sydney NSW 2010
02 698 9199

Soft Centre Pty Ltd

40 Jolimont Terrace
East Melbourne VIC 3002
03 654 1977

20 Belmore Street
Surry Hills
Sydney NSW 2010
02 212 6799

Software Corporation of Australia

16 Belmore Street
Surry Hills
Sydney NSW 2010
02 211 4099

Software Suppliers

7 Avon Road
North Ryde
Sydney NSW 2113
02 888 1955

Sola Basic Australia Ltd

13 Healey Road
Dandenong VIC 3175
03 791 1033

PO Box W59
Warringah Mall NSW 2093
02 949 6000

Unit 1
5 Dampier Street
Welshpool WA 6106
09 451 9200

Unit 12
66 Richmond Road
Kew SA 5035
08 297 0844

Sony (Australia) Pty Ltd

33-39 Talavera Road
North Ryde NSW 2113
02 887 6666

268 Canterbury Road,
Surrey Hills VIC 3127
03 836 4011

2 Manning Street
South Brisbane QLD 4011
07 446 554

263 Sturt Street
Adelaide SA 5000
08 212 2877

Sourceware Pty Limited

586 Pacific Highway
Chatswood
Sydney NSW 2067
02 411 5711

29th Level
200 Queen Street
Melbourne VIC 3000
03 605 8500

South Pacific Computers Limited

13 Stamford Road
Oakleigh VIC 3166
03 563 1999

Unit 3
190-192 Canterbury Road
Canterbury NSW 2193
02 787 1888

Specialist Software

P O Box 20
Burnside
Adelaide SA 5066
08 269 1443

SPS Software Product Support Pty Ltd

15 Pacific Highway
Roseville
Sydney NSW 2069
02 419 5879

Staedtler (Pacific) Pty Ltd

1 Inman Road
Dee Why West
Sydney NSW 2099
02 982 4555

63 Abbotsford Street
West Melbourne VIC 3003
03 328 1751

1 Campbell Street
Bowen Hills QLD 4006
07 854 1415

Collett & Cant Pty Limited

94 The Parade
Norwood SA 5067
08 425 037

B & W Agencies

396 Scarborough Beach Road
Osborne Park WA 6017
09 444 9997

Stamford Industries Pty Limited

P O Box 651
Brookvale NSW 2100
02 939 1699

42 East Concourse
Beaumaris VIC 3193
03 589 1646

Standard Telephones & Cables Business Communications Systems

5 Blue Street
North Sydney NSW 2060
02 925 7272

58 Queensbridge Street
South Melbourne VIC 3205
03 615 6666

545 Queen Street
Brisbane QLD 4000
07 832 5511

28-30 Magill Road
Norwood SA 5067
08 425 671

396 Scarborough Beach Road
Osborne Park WA 6017
09 444 0211

90 Wentworth Avenue
Kingston ACT 2604
062 951 600

Star Micronics Pty Ltd

7/25 George Street
Homebush NSW 2140
02 736 1144

39 Flanders Road
Salisbury North QLD 4107
07 875 1551

Waverley Gate Business Park
Unit 14/106 Femtree Gully Road
Oakleigh VIC 3166
03 690 3233

Starcad Australia Pty Ltd

617 Harris Street
Ultimo
Sydney NSW 2007
02 281 1911

Storage Master Media

28 Buffalo Road
Gladesville NSW 2111
02 816 3222

Streamline Data Services Pty Limited

6 Pound Road
Hornsby NSW 2077
02 476 6466

Sun Computer Australia

10th Floor
77 Pacific Highway
North Sydney NSW 2065
02 957 2655

11th Floor
14 Queens Road
Melbourne VIC 3004
03 267 6222

Sun Computer (cont)
Law Society Building
11 London Circuit
Canberra ACT 2601
062 478 188

1st Floor
78 Fullarton Road
Adelaide SA 5067
08 363 0201

1st Floor
270 Adelaide Street
Brisbane QLD 4000
07 221 6772

Super-PC

273 Huntingdale Road
Oakleigh VIC 3166
03 543 3755

Swedish Power Systems Pty Limited

2-4 Pacific Highway
St Leonards NSW 2065
02 437 6296

Switchmode Power Supplies

44 Kingston St
Haberfield NSW 2045
02 799 6465

Sydney Computer Cleaning Services

11 Uralba Place
Wahroonga
Sydney NSW 2076
02 489 6029

Sylex Ergonomics

1 Short Street
Auburn NSW 2144
02 647 2888

Symbiotic Computer Systems

P O Box 412
Camberwell VIC 3124
03 882 2248

Synax Systems Pty Limited

Unit 1 28 Roseberry Street
Balgowlah NSW 2093
02 949 2711

Syncomp Systems Pty Ltd

Fidelity House, 1st Floor
6-14 Geeves Avenue
Rockdale NSW 2216
02 599 1000

Syscorp Pty Limited

41 Military Road
Neutral Bay NSW 2089
02 908 1599

Level 2
969 Burke Road
Hawthorn VIC 3122
03 813 3122

P O Box 133
Kensington Park SA 5068
08 363 0211

System Solutions Pty Limited

215-217 Clarence Street
Sydney NSW 2000
02 292 222

T.C.G. Group

30 Balfour Street
Chippendale NSW 2008
02 699 8300

275 Normanby Road
Port Melbourne VIC 3207
03 646 5411

Unit 1
339 Coronation Drive
Milton QLD 4064
07 371 9677

Unit 4
10 Canning Highway
South Perth WA 6151
09 474 1966

Taiwan Australia Trade & Commercial

Centre
224 Victoria Road
Rozelle NSW 2039
02 818 1533

Talisman Trading Co

P O Box 587
Artarmon NSW 2064
02 438 4848

Tardis

PO Box 242
Durat NSW 2158
02 651 1404 ,02 651 2363

Taxale Pty Ltd

30 Gaunson Crescent
Wanniasa
Canberra ACT 2603
062 310 728

Tech Pacific Pty Ltd

119 Ferrars Street
South Melbourne VIC 3205
03 690 9055

Tech Rentals Pty Ltd

55 Blaxland Road
Ryde NSW 2112
02 808 3055

Techcom KSH Systems

1155 Malvern Road
Malvern VIC 3144
03 209 2266

Technical Imports Australia Ltd

P O Box 176
Crows Nest NSW 2065
02 922 6833

Telecom Australia

8th Floor
518 Little Bourke Street
Melbourne VIC 3000
03 606 6643

Telex Computer Products Int'nat

P O Box 1327
North Sydney NSW 2060
02 427 2211

26 Greenhill Road
Wayville SA 5034
08 373 1444

Unit 4
4 Quatrough Street
Woolloongabba QLD 4102
07 393 1849

HIA Building
25 Geils Street
Deakin ACT 2600
062 810 544

43 Cavenagh Street
Darwin NT 5790
089 815 171

1/15 Macquarie Street
Hobart TAS 7000
002 233 468

6/20 Albert Road
South Melbourne VIC 3205
03 690 9633

43 Labouchere Road
South Perth WA 6151
09 367 8222

Testronic

3 Montana Avenue
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North Ryde NSW 2113
02 887 1122

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02 438 1822

The Nice Computer Company

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Thomson Monitors Australia

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Melbourne VIC 3149
03 277 6103

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Braddon ACT
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02 439 5488 ,02 437 6863

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Waitara NSW 2077
02 489 1181

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Triumph Adler

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03 267 5311

583-587 Gregory Terrace
Fortitude Valley QLD 4006
07 520 261

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08 223 6222

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St Leonards NSW 2065
02 439 7144

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03 895 0542

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Mt Eliza VIC 3930
03 787 8221

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P O Box 442
Gladesville NSW 2111
02 816 3222

254 Dorcas Street
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03 699 9688

31 London Circuit
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